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**TIME TABLE—FACULTY OF ARTS AND SCIENCES—1922-23**  
**(B.A., B.Sc., B.Sc. in H.Ec., B.Sc. in Pharm., B.Com.)**

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<b>8:30</b>	Fr A(A) Lat A(A) Fr 5—4(A) Grk 2—4 Chem 58 H Ec 57 lab Math 61	Fr A(B) Fr 1—3(A) Ger A(A) Lat A(B) *Math 1(A) Phil 2 Chem 51 Commercial Law Eng 57 H Ec 55 lab Hist 54 Math 58	Fr A(A) Lat A(A) Fr 5—4(A) Grk 2—4 Chem 58 H Ec 57 Math 61	Fr A(B) Fr 1—3(A) Ger A(A) Lat A(B) *Math 1(A) Phil 2 Chem 51 Commercial Law Eng 57 H Ec 55 lab Hist 54 Math 58	Fr A(A) Lat A(A) Fr 5—4(A) Grk 2—4 Chem 58 H Ec 57 Math 61	Fr A(B) Fr 1—3(A) Ger A(A) Lat A(B) *Math 1(A) Phil 2 Chem 51 Commercial Law Eng 57 H Ec 55 lab Hist 54 Math 58
<b>9:30</b>	Eng 1(A) Eng 1(B) Phys 1(A) Eng 2 Phys 12 Chem 52 Fr 55 Geol 53 H Ec 51 Hist 58 Math 53 Mat Med 52 Psych 52	Eng 1(C) Eng 1(D) Phys 1(B) Chem 1 Phys 3 Bot 51 Cl in Eng 51 Geol 58 Heb 51 H Ec 55 lab Hist 58 Math 53 Phil 53 Pol Ec 66	Eng 1(A) Eng 1(B) Phys 1(A) Eng 2 Phys 12 Chem 52 Fr 55 Geol 53 H Ec 51 Hist 58 Math 53 Mat Med 52 Psych 52	Eng 1(C) Eng 1(D) Phys 1(B) Chem 1 Phys 3 Bot 51 Cl in Eng 51 Geol 58 Heb 51 H Ec 55 lab Hist 58 Math 53 Phil 53 Pol Ec 66	Eng 1(A) Eng 1(B) Phys 1(A) Eng 2 Phys 12 Chem 52 Fr 55 Geol 53 H Ec 51 Hist 58 Math 53 Mat Med 52 Psych 52	Eng 1(C) Eng 1(D) Phys 1(B) Chem 1 Phys 3 Bot 51 Cl in Eng 51 Geol 58 Heb 51 H Ec 55 lab Hist 58 Math 53 Phil 53 Pol Ec 66 Psychol 104
<b>10:30</b>	Fr A(C) Fr 1—3(B) Math 2 Fr 5—4(B) Pol Ec 1 Acct 52 Geol 55 Heb 52 H Ec 52 Math 55 Mat Med 51 Phil 51 Phys 54 Psychol 56 Physiol 61	Hist 1 Acct 1 Bot 1 Lat 2—4 Eng 59 Geol 55 Ger 52 Grk 55 H Ec 59 2nd Term Lat 66 Math 56 Mat Med 51 Phys 53 Psychol 56	Fr A(C) Fr 1—3(B) Math 2 Fr 5—4(B) Pol Ec 1 Acct 52 Geol 55 Heb 52 H Ec 52 Math 55 Mat Med 51 Phil 51 Phys 54 Psychol 56 Tox 61	Hist 1 Acct 1 Bot 1 Lat 2—4 Eng 59 Geol 55 Ger 52 Grk 55 H Ec 59 2nd Term Lat 66 Math 56 Mat Med 51 Phys 53 Psychol 56	Fr A(C) Fr 1—3(B) Math 2 Fr 5—4(B) Pol Ec 1 Acct 52 Geol 55 Heb 52 H Ec 52 Math 55 Mat Med 51 Phil 51 Phys 54 Psychol 56 Physiol 61	Hist 1(A) Phys 1(C) lab Acct 1 Bot 1 Lat 2—4 Eng 59 Geol 55 Ger 52 Grk 55 H Ec 59 2nd Term Math 56 Mat Med 51 Phys 53 Psychol 104 Psychol 56
<b>11:30</b>	Fr 1—3(D) Lat 1—3(A) Math 1(B) Bact 2 & 61 1st Term Ger 2—4 Hist 2 Phys 6 S Ancient Hist 51 Bot 52 Chem 54 Eng 58 Geol 51 Fr 51 H Ec 56 Lat 57 Phil 52 Pol Ec 63	Ger 1—3(A) Lat 1—3(B) Math 1(D) " 1(E) " 3 Hist 3 Math 7 Phys 8 Zool 1 Biochem 61 Chem 54 Eng 60 Geol 51 Fr 51 H Ec 56 Math 57 Pharm 51 Psychol 51 Pol Ec 63	Fr 1—3(D) Lat 1—3(A) Math 1(B) H Ec 1 lab 2nd Term Ger 2—4 Hist 2 Phys 8 Phys 6 S Ancient Hist 51 Bot 52 Chem 54 Eng 60 Geol 51 Fr 51 H Ec 56 Math 57 Pharm 51 Psychol 51 Pol Ec 63	Ger 1—3(A) Lat 1—3(B) Math 1(D) " 1(E) " 3 Hist 3 Math 7 Phys 8 Zool 1 Biochem 61 Chem 54 Eng 60 Geol 51 Fr 51 H Ec 56 Math 57 Pharm 51 Psychol 51 Pol Ec 63	Fr 1—3(D) Lat 1—3(A) Math 1(B) H Ec 2 1st Term Ger 2—4 Hist 2 Math 22 Phys 6 S Ancient Hist 51 Bot 52 Chem 54 Eng 58 Geol 51 Fr 51 Math 57 Pharm 51 Psychol 51 Pol Ec 63	Ger 1—3(A) Hist 1(B) Lat 1—3(B) Math 1(D) " 1(E) " 3 Phys 1(C) lab Hist 3 Math 7 Phys 8 Zool 1 Biochem 61 Chem 54 Eng 60 Geol 51 Fr 51 H Ec 56 Math 57 Pharm 51 Psychol 51 Pol Ec 63 Psychol 104
<b>1:30</b>	Fr A(B) Ger A(b) Lat A(C) Phys 3 lab Phys 6 lab Zool 1 lab Biochem 61 lab Bot 51 lab Chem 59 lab Geol 53 lab Geol 58 lab Term H Ec 52 lab Psychol 54	Phys 1(A) lab Hist 1(C) H Ec 2 1st Term Math 22 lab Phys 12 lab Bact 61 lab 1st Term Chem 54 lab Pharm 54 lab Phys 54 lab Lat 57 Phil 52 Pol Ec 63	Fr A(D) Ger A(B) Grk 1 Lat A(C) Chem 1(A) lab Phys 8 lab Bot 52 lab Chem 51 lab Chem 59 lab Geol 55 lab H Ec 55 Term Math 63 lab 2nd Pharm 54 lab Psychol 54	Phys 1(B) lab Hist 1(F) Bot 1 lab H Ec 2 1st Term H Ec 3 2nd Term Chem 52 lab Geol 51 lab Pharm 55 lab	Fr A(D) Ger A(B) Grk 1 Lat A(C) Bact 2 lab 1st Term Chem 1(B) lab H Ec 1 lab 2nd Term Chem 58 lab Eng 58 Geol 62 lab H Ec 51 lab Pharm 55 lab Phys 53 lab Physiol 61 lab Pol Ec 67	Fr A(D) Ger A(B) Grk 1 Lat A(C) Bact 2 lab 1st Term Chem 1(B) lab H Ec 1 lab 2nd Term Chem 58 lab Eng 58 Geol 62 lab H Ec 51 lab Pharm 55 lab Phys 53 lab Physiol 61 lab Pol Ec 67
<b>2:30</b>	Fr A(E) Ger 1—3 (B) Math 1(C) Phys 3 lab Phys 6 lab Zool 1 lab Biochem 61 lab Bot 51 lab Chem 59 lab Geol 53 lab Geol 58 lab Term H Ec 52 lab Pol Ec 67	Phys 1(A) lab Hist 1(D) H Ec 2 lab, 1st term H Ec 3 lab, 2nd term Math 22 lab Phys 12 lab Bact 61 lab, 1st term Chem 54 lab H Ec 55 Pharm 54 lab Phys 54 lab 2nd	Fr A(E) Ger 1—3(B) Math 1(C) Chem 1(A) lab Phys 8 lab Bot 52 lab Chem 51 lab Chem 59 lab Eng 53 Geol 55 lab H Ec 55 lab Term Math 63 lab 2nd Pharm 54 lab Pol Ec 67	Phys 1(B) lab Hist 1(F) Bot 1 lab H Ec 2 lab 1st Term H Ec 3 lab 2nd Term Chem 52 lab Geol 51 lab Pharm 55 lab	Fr A(E) Ger 1—3(B) Math 1(C) Bact 2 lab 1st Term Chem 1(B) lab H Ec 1 lab 2nd Term Chem 58 lab Eng 58 Geol 62 lab H Ec 51 lab Pharm 55 lab Phys 53 lab Physiol 61 lab Pol Ec 67	Fr A(E) Ger 1—3(B) Math 1(C) Bact 2 lab 1st Term Chem 1(B) lab H Ec 1 lab 2nd Term Chem 58 lab Eng 58 Geol 62 lab H Ec 51 lab Pharm 55 lab Phys 53 lab Physiol 61 lab Pol Ec 67
<b>3:30</b>	Eng 1(F) Fr 1—3(C) Lat 1—3(C) Phys 3 lab Phys 6 lab Zool 1 lab Biochem 61 lab Bot 51 lab Chem 59 lab Geol 53 lab Geol 58 lab Term H Ec 52 lab	Math 22 lab Phys 12 lab Bact 61 lab 1st Term Chem 54 lab Chem 59 lab Pharm 54 lab Phys 54 lab 2nd	Eng 1(F) Fr 1—3(C) Lat 1—3(C) Chem 1(A) lab Phys 8 lab Bot 52 lab Chem 51 lab Chem 59 lab Eng 53 Geol 55 lab H Ec 55 lab Term Math 63 lab 2nd Pharm 54 lab	Eng 1(F) Fr 1—3(C) Lat 1—3(C) Bact 2 lab 1st Term Chem 1(B) lab H Ec 1 lab 2nd Term Chem 58 lab Eng 58 Geol 62 lab H Ec 51 lab Pharm 55 lab Phys 53 lab Physiol 61 lab	Eng 1(F) Fr 1—3(C) Lat 1—3(C) Bact 2 lab 1st Term Chem 1(B) lab H Ec 1 lab 2nd Term Chem 58 lab Eng 58 Geol 62 lab H Ec 51 lab Pharm 55 lab Phys 53 lab Physiol 61 lab	Eng 1(F) Fr 1—3(C) Lat 1—3(C) Bact 2 lab 1st Term Chem 1(B) lab H Ec 1 lab 2nd Term Chem 58 lab Eng 58 Geol 62 lab H Ec 51 lab Pharm 55 lab Phys 53 lab Physiol 61 lab
<b>4:30</b>		C O T C		C O T C		
<b>5:00</b>	Psychol 55 Arch 62	Psychol 105 5 to 6-30	Psychol 55 Arch 62	Psychol 105 5 to 6-30	Psychol 55 Arch 62	Psychol 55 Arch 62

\* Arts for Engineering students only.  
 † See under Department of Classics.  
 N.B. 1. Extra hours in the "A" language courses to be arranged.  
 2. Physical Education 1 & 2 at 4-30 p.m.; days to be arranged.  
 3. Honours Courses and Teachers' Courses to be arranged.







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# Academic Calendar

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1922

## June

- 26—High School and University Matriculation Examinations begin.

## August

- 12—Last day for receiving applications for examinations on behalf of affiliated societies.
- 12—Last day for receiving applications for September Matriculation at the office of the Chairman of the High School and University Matriculation Examinations Board, Parliament Buildings.
- 26—Last day for receiving applications for supplemental examinations.

## September

- 11—Autumn Matriculation Examinations: Examinations of the affiliated societies.
- 25—All supplemental examinations.
- 25, 26—Registration of Freshmen and new students.
- 26, 27—Registration of all other students.
- 27—Lectures in first year courses begin.
- 28—Lectures in all other courses begin.

## October

- 11—Autumn Convocation.

## November

- 1—Last day for graduates and B.D. students to adjust courses or submit subject of investigation.
- 1—Lectures commence in the first year of Agriculture.
- 13—First Junior tests begin.

## UNIVERSITY OF ALBERTA

### December

- 5—Examinations of the Institute of Chartered Accountants of Alberta.
- 18—First Senior tests begin.
- 22—Christmas vacation begins.

### 1923

### January

- 4—Lectures begin.
- 22—Examinations of the Alberta Land Surveyors' Association.

### February

- 5—Second Junior tests begin.
- 14—Ash Wednesday.
- 26—Second Senior tests begin.

### March

- 24—Lectures close in first two years of Agriculture.
- 26—Examinations begin in first two years of Agriculture.
- 30—Good Friday.
- 31—Lectures close in first two years of Applied Science.

### April

- 3—Last day for receiving applications for May Matriculation Examinations at the office of the Examinations Board, Parliament Buildings.
- 3—Last day for graduate students to hand in report of results of investigation or thesis.
- 3—Examinations begin in first two years of Applied Science.
- 12—Survey School begins.
- 14—Lectures close in Arts, Law, Medicine and Pharmacy.
- 23—Final examinations in all Faculties.
- 23—Examinations of the College of Physicians and Surgeons of Alberta, the Law Society, the Dental Association, Land Surveyors' Association, Architects' Association, Alberta Association of Registered Nurses, the Veterinary Association of Alberta, the Alberta Optometric Association, and the Alberta Pharmaceutical Association.

### May

- 9—Charter Day.
- 16—Convocation for the conferring of degrees.



# Governing Body of the University of Alberta

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## VISITOR

THE HONORABLE ROBERT GEORGE BRETT, M.D., LL.D., Lieutenant-Governor  
of Alberta.

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THE HONORABLE CHARLES ALLAN STUART, B.A., LL.B., LL.D.

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JAMES RAMSEY, Esq., Vice-Chairman.

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MISS ISABEL NOBLE, B.A.

LEWIS MARTIN JOHNSTONE, LL.B., K.C.

JOHN DARLEY HARRISON, M.A., M.D., C.M.

WILLIAM E. HAY, Esq.

ARCHIBALD WEST, Bursar.

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the University.

THE HONORABLE HORACE HARVEY, M.A., LL.B., LL.D., Chairman of the  
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JOHN THOMAS ROSS, B.A., Deputy Minister of Education.

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THE REV. JOHN McLEOD MILLAR, M.A., B.D., D.D., Principal of Robertson  
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THE RT. REV. HENRY ALLEN GRAY, M.A., D.D., LL.D., Warden of St. Aidan's  
College.

ERNEST WILLIAM COFFIN, B.A., Ph.D., Senior Principal of the Provincial Nor-  
mal Schools.

## UNIVERSITY OF ALBERTA

### Elected Members to Retire May 20th, 1925.

ROBERT BRUCE WELLS, M.B.  
WILLIAM M. DAVIDSON, B.A.  
WILLIAM DIXON CRAIG, B.A., LL.B.  
CHARLES E. SMYTH, M.B.  
JOHN DOLSON OLIVER MOTHERSILL, B.A.

### Elected Members to Retire May 21st, 1923.

HON. ALEXANDER CAMERON RUTHERFORD, B.A., B.C.L., LL.D.  
ROBERT HOWARD DOBSON, M.A.  
JAMES ALEXANDER FIFE, B.A., M.Sc.  
REV. DAVID GEORGE McQUEEN, B.A., D.D., LL.D.  
WILLIAM ROBINSON HOWSON, B.A., LL.B.

---

DUNCAN ALEXANDER MacGIBBON, M.A., Ph.D., and  
SAMUEL DOUGLAS KILLAM, M.A., Ph.D., and  
HALLEY HAMILTON GAETZ, Representatives of the Faculty of Arts and  
Sciences to retire March 8th, 1924.

---

FRANK ARCHIBALD WYATT, B.S.A., M.S., Ph.D., and  
JOHN MacGREGOR SMITH, B.S.A., Representatives of the Faculty of Agriculture  
to retire March 8th, 1924.

---

FRANK HAMILTON MEWBURN, M.D., C.M., LL.D., and  
JOHN JAMES OWER, B.A., M.D., C.M., Representatives of the Faculty of  
Medicine to retire March 8th, 1924.

---

ROBERT STARR LEIGH WILSON, B.Sc., and  
NORMAN CHARLES PITCHER, M.Sc., Representatives of the Faculty of Applied  
Science to retire March 8th, 1923.

---

JOHN SUTHERLAND WRIGHT, M.B., Representative of the College of Physicians and Surgeons of Alberta.  
A. P. C. BULYEA, Director of Surveys for Alberta, Representative of the Alberta Land Surveyors' Association.  
A. B. MASON, D.D.S., Representative of the Alberta Dental Association.  
A. M. CALDERON, Representative of the Alberta Architects' Association.  
HARVEY HAYWARD PARLEE, B.A., B.C.L., Representative of the Law Society of Alberta.  
MALCOLM CAMPBELL McCANNEL, C.A., Representative of the Institute of Chartered Accountants of Alberta.  
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DONALD EWING CAMERON, M.A., Librarian to the University.

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## UNIVERSITY OF ALBERTA

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# Organization of the University

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## History and Government

The University of Alberta was created by an act of the Legislature of the Province passed at the first session after provincial autonomy had been granted (1906); that is, the act created the machinery by which the University could be brought into existence. By this act the University, which then consisted of the Chancellor, the Vice-Chancellor, the Senate, and the Convocation, was empowered to undertake the organization and development of the teaching faculties, to affiliate colleges, and, generally, to undertake all work relating to an institution of higher learning. An amendment to the act, passed during the session of the Legislature in 1907, authorized the Lieutenant-Governor-in-Council as a preliminary step to the organization of the University, to appoint the first President, to whom was to be given the responsibility, in conjunction with the Senate, of organizing and developing the university scheme. Acting upon this authority the Government selected the first President, who entered upon his duties on January 1st, 1908.

Under the act, all resident graduates of British and Canadian universities were entitled to become members of the convocation of the University of Alberta, by registering before a fixed date. Three hundred and sixty-four graduates, representing all the Canadian and many of the British Universities, registered, so that a large and representative body constituted the first convocation.

The act has also provided that the Senate should consist of fifteen members, ten to be appointed by the Government, five to be selected by the members of convocation from among themselves. The Chancellor likewise was to be chosen by a ballot of Convocation. The voting for the first Senate election closed on March 18th, 1908, and immediately thereafter the Government nominated its ten representatives, Mr. Justice Stuart of Calgary was chosen as first Chancellor.

As the Act made the Senate the governing body of the University, both in relation to education and business man-



## UNIVERSITY OF ALBERTA

agement, at the first meeting of that body, on March 30th, 1908, it took all the necessary steps to organize the first faculty, to be known as the Faculty of Arts and Sciences, and to open the University of Alberta for classes in this Faculty in September, 1908.

At the second meeting of the Senate, held in Calgary, July 6th, 1908, the first faculty appointments were made, four professors were named to co-operate with the President in the work of commencing instruction.

The first session of the University opened on September 23rd, 1908. The total registration for the session was forty-five, four of whom were students taking graduate courses in the Department of Physics.

At the second session of the Second Legislature, November, 1910, a comprehensive measure reorganizing in large part the government of the University was introduced and passed into law. By the new act a Board of Governors was constituted, to consist of the Chancellor and the President of the University, ex-officio, together with nine members to be appointed by the Lieutenant-Governor-in-Council; the functions of this Board may be defined generally as those of business management and administration, including the making of appointments to the teaching and office staff of the University, the handling of all University moneys and investments, and the supervision of buildings and grounds. The Senate, by this same act, was continued as a body entrusted with the general supervision of the University's educational work. It is defined by the statute to consist of the Chairman of the Board of Governors, the President, the heads of affiliated Colleges, the Deans of the University Faculties, all ex-Chancellors or ex-Vice-Chancellors of the University, the Senior Principal of the Provincial Normal Schools, and the Superintendent of Education for the Province ex-officio; of faculty representatives; of representatives of all societies whose examinations for status are conducted by the University; and of ten members elected by Convocation. The prerogatives of the Senate include the field of student regulation and discipline, the approval of all educational schedules or programmes, and the establishing and conferring of degrees. The Convocation, under this act, is composed of all graduates of the University and of all the resident graduates of British and Canadian universities who registered under the University Act of 1906.



## ORGANIZATION OF THE UNIVERSITY

Convocation is empowered to consider all questions affecting the well-being of the University and to make representation thereupon, to the Board and to the Senate.

Conformably with the provisions of this act, late in December, 1910, the Lieutenant-Governor-in-Council appointed nine members of the Board of Governors, who met and organized early in January, 1911. An election for members of the Senate, in accordance with the terms of the act, was ordered. By March 8th the elective members of the Senate had been chosen, and the new Senate held its first meeting for the transaction of business on March 31st, 1911, completing, among other items, arrangements for the first graduation exercises of the university. These took place on May 16th, 1911.

During the summer of 1911, Athabasca Hall, the first building of the University scheme to be completed, was made ready for occupation, and lectures were given for the first time on the University Grounds in September of that year. At the same time excavations were begun for a second hall of a similar nature. This became available for partial occupation in October, 1912, and in its entirety by the beginning of 1913, under the name of Assiniboia Hall. In the autumn of 1913 the foundations of the third building, Pembina Hall, were laid, and in October, 1914, a considerable part of it was ready for use as class-rooms. It is now used for residential purposes only.

From its very beginning the University of Alberta has undertaken extension work in the form of lectures by members of its staff in a number of important provincial centres, but special emphasis was laid upon this side of the University's activities by the appointment in May, 1912, of a special Secretary of the Department of Extension. This officer undertook the task of systematizing the extension work in such a way as to enable the University to achieve more fully the important function of reaching in its educational work the people of the province at large.

The Department of Extension also inaugurated in 1913 a press bulletin, a system of travelling libraries, and a bureau of information from which literary clubs and debating societies can obtain briefs on issues of all sorts. It organized in the same year a high school debating league which has



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stimulated very remarkably the interests of the secondary schools of the Province in argumentation and public speaking. A new departure in 1915 was the presentation to Edmonton and Calgary audiences of a series of discussions on the social problems of western Canadian life.

The year 1912 saw another development of the University's activity in the creation of a Faculty of Law; this was effected by a resolution of the Senate under date of October 3rd, upon which the Board of Governors took favorable action shortly afterwards. A three-year course leading to the degree of LL.B. was established, and thirty-five students were enrolled for the first session of the new faculty. In 1914 this course, portions of which coincide with the requirements of the Alberta Law Society, was extended to cover four years.

In the autumn of 1913 the Department of Civil Engineering and its allied subjects ceased to form a portion of the original Faculty of Arts and Sciences, and were constituted a new faculty under the name of the Faculty of Applied Science. At the same time the fourth University faculty came into existence, and instruction began in the Faculty of Medicine. Twenty-six students constituted the first class in this faculty, and arrangements were perfected to carry them through at least three years of a five year course, with the privilege of being then transferred, if necessary, with full standing to certain Eastern universities. Under the Faculty of Medicine a Department of Pharmacy has been organized; instruction in this Department began in October, 1914, designed to prepare students to satisfy the requirements of the Pharmaceutical Association of Alberta. Features of interest in connection with the Faculty of Medicine are the University Medical Service whereby the health of all students is supervised in a very direct manner, and the outdoor clinics given at the city hospitals by members of the faculty.

In December 1913 the contracts were let for the construction of what is known as the main teaching building of the University. This fine structure in the neo-classic style ranks high among the university buildings of Canada for the combination it presents of utility and beauty. It was occupied in October 1915, being opened with comparatively simple ceremonies because of the shadow of war which then began to rest so heavily upon the country.



## ORGANIZATION OF THE UNIVERSITY

Of the work of the University in the war, record will be made elsewhere; it is fitting, however, to note here that the University of Alberta sent into various branches of His Majesty's service in all parts of the world 438 undergraduates, alumni, and staff-members. Of these a large number received special military decorations from the British Empire and several also from the French Republic, while to more than sixty it was given to offer for their country the last measure of sacrifice.

During the long period of the Great War, all building activities were suspended, but in May 1919, arrangements were made to proceed with an extension of the then existing civil engineering unit and to duplicate this building by a similar structure at the north end of the main teaching building.

In September 1915 the fifth university faculty came into existence when the Faculty of Agriculture was created. The southern end of the University property is largely devoted to the farm buildings and experimental plots of this College, and it became necessary in the spring of 1919 to acquire still more land a short distance south of the university site proper in order to provide further facilities for the study of animal husbandry.

Pharmacy, which as above noted, began its work as a Department of the Faculty of Medicine in October, 1914, was in the spring of 1917 erected into a School of Pharmacy, designed not only to give instruction in such work as is required by the Pharmaceutical Association of Alberta, but also to carry forward to a degree such students as may determine to devote four years of study to the work. In this manner the whole standard of Pharmacy in the Province of Alberta is distinctly elevated.

Dentistry was authorized as a sub-faculty under the Faculty of Medicine in 1917, and the first students under this arrangement offered themselves in the session of 1918-19. It is proposed for the present that they shall complete their work in eastern schools under equitable arrangements such as have been made for students in the Faculty of Medicine.

In 1918 the Department of Household Economics was organized under the Faculty of Arts and Sciences, the need having already been made clear by a demand for this work the



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previous session. In the fall of 1918 also special recognition was accorded the physical needs of the rapidly growing body of women students by the appointment of a Directress of Physical Education for Women.

In the fall of 1918 the College of Agriculture lent itself most heartily to the pressing demands of reconstructional education by offering courses of a special nature in various agricultural lines and also in carpentering and blacksmithing. A large number of returned soldiers were in this way most satisfactorily accommodated, and it is expected that this work will be continued during several years to come.

The insistent demands of the economic and social problems of the province were recognized by the creation in the spring of 1919 of chairs of Soils, Mining Engineering, and Economics, in all of which a full measure of work was given in the fall of 1919. All of these subjects had previously been handled as branches of already existing departments but with the recognition of their growing importance came the decision to treat them as independent units of the educational scheme.

The extraordinary increase in the number of students in the Faculty of Medicine, made it absolutely imperative in the fall of 1919 to consider the question of the future housing of that Faculty, and the Board of Governors authorized early in 1920 the construction of a Medical Building, work on which began in April of that year. The new edifice faces south on the quadrangle of university buildings, and is in architectural harmony with the general neo-classic style adopted some years previously for the whole university scheme. In addition to accommodating the Department of Chemistry, it contains laboratories for the Departments of Anatomy, Physiology, Biology, Pathology, and Public Health, and also two lecture halls in the theatre form with a capacity of two hundred students each. Full advantage has been taken in the erection of this building of the wide experience afforded by the last twenty years in such matters.

The status of the School of Pharmacy was augmented during the academic year 1919-20 by the creation of the office of Director of the School; this step completed the evolution of the School from a Department under the Faculty of Medicine to an independent unit in the university plan.



## ORGANIZATION OF THE UNIVERSITY

During the session 1919-20, the entire university curriculum in all faculties was subjected to careful scrutiny and revision in the light of the most recent developments in the theory of university education and of the growth of the demand in the province for university training, and the results of this investigation, constituting the most important advance in the scholastic history of the institution, became available by authorization of the Senate for the academic year beginning in September, 1920. The general aim of the revision was to secure greater freedom in the election of courses without abandoning in any sense the basic features of a sound education as dictated by long experience.

A notable feature of the university life during the winter of 1919-20 was the formation of the Scientific Association of the University of Alberta, comprising all the members of the staff engaged in teaching and research work in the pure and applied sciences. The meetings of this society revealed in a convincing way the present lack of knowledge existing in regard to the facts upon which the economic life of the Province of Alberta must ultimately depend, and at least forty problems of pressing importance were definitely formulated and submitted to the government of the province for consideration. With the entire concurrence of the latter the university assumed through its various departments the important duty of economic research into the resources of the province under the general chairmanship of the Honourable J. L. Coté, Provincial Secretary, and during the field season of 1920 operations began on a definite and considered basis. In this connection the university farm, primarily equipped for the purposes of the Department of Agriculture was authorized by the Board of Governors to conduct an experimental station for agricultural research.

The deanships of the University, first instituted in May 1914 by the appointment of Professor Kerr as Dean of the Faculty of Arts, and added to by the appointment of Dean Howes in the Faculty of Agriculture in 1915, were further increased in the spring of 1920 by the nomination of Dr. Rankin to the deanship of the Faculty of Medicine, and in the autumn of 1921 by the selection of Professor R. W. Boyle as Dean of the Faculty of Applied Science.

The Medical Building, begun in the spring of 1920, was brought to completion in the summer of 1921, thus becoming



## UNIVERSITY OF ALBERTA

available for teaching purposes in September. The equipment of this building in all departments is particularly adequate for scientific instruction in Medicine and for the needs of medical research, and during the year 1920-1921 the Departments of Physics and Chemistry, the work of which bears an important relation to that in the Faculty of Medicine, received also generous additions to their material resources.

Negotiations of vital interest to the future of medical teaching in the University were begun during the summer of 1920 with the Rockefeller Foundation, instituted by John D. Rockefeller, for the promotion of better medical training in the United States and Canada; the sum of one hundred millions of dollars has been placed under the administration of this Foundation, of which five millions is for use in the Dominion of Canada. While these negotiations are still incomplete, the sum of twenty-five thousand dollars annually, representing the interest on half a million, has been made available for the use of the Medical Faculty in the University of Alberta.

In the Faculty of Agriculture during the year 1920-21, a new department of Agricultural Engineering was added. In this department, as in all the other departments of the Faculty of Agriculture, much progress was made in providing the equipment required for practical instruction in agricultural subjects and for the furtherance of scientific investigation in agriculture generally.

The relation of the University to public service was further emphasized during 1920-21 by the inclusion in the University's lecture and examination programme of the courses relating to the training of nurses for the Public Health service of the Province. Legislative enactment also placed optometry and veterinary science under the control of the University Senate for purposes of examination for license to practise within the Province. An amendment was also made by the Legislature at its 1921 session to the Legal Profession Act whereby the establishment of a School of Law in connection with the University was made possible, and in accordance with this provision the School was instituted and first year courses in Law offered in September of the same year.



## UNIVERSITY LIBRARY

### University Library

The Library of the University contains about 22,500 volumes, and is being added to as circumstances permit.

The main Reading Room is in the Arts Building; during the session about 1,200 of the books required in connection with the various classes are kept on open shelves in this room for the convenience of students. The Stack Room is below the Reading Room, and all students may borrow books from it, but only senior students are allowed to study in the Stack Room.

The Medical Building contains its own Reading Room, in which the medical section of the Library is kept, and the Department of Agriculture has a similar separate room.

The Library subscribes to a considerable number of the most important periodicals, which are available for consultation.

During the past year several valuable donations have been received, the most important of which is the collection of documents and maps used by the late Hon. A. L. Sifton at the Peace Conference. Through the courtesy of the Hon. Charles Stewart this collection is now in the possession of the University of Alberta.



# Matriculation

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## Classification of Students

The courses of study in the University are open to men and women on equal footing.

Except under special circumstances no student under sixteen years of age will be admitted to the first year, or under seventeen to the second year.

No one shall be registered as a student for a full undergraduate course who has failed in more than two of the subjects enumerated in the Matriculation Examination Requirements for the various faculties.

Students are classified as Graduate, Undergraduate, Conditioned, Partial and Special.

**Graduate** students are those who hold the Bachelor's degree (B.A. or B.Sc.) and are either pursuing special studies in advanced courses, or have been formally admitted upon the recommendation of the Committee on Graduate Studies, to candidacy for the Master's degree.

**Undergraduates** are matriculated students who are taking a full undergraduate course leading to a degree. In order to become undergraduates, candidates must have passed the full matriculation examination of the University or some other equivalent examination.

**Conditioned** students are those who having failed in not more than two subjects of their matriculation examination are actually taking a full undergraduate course leading to a degree, and are entitled to obtain undergraduate standing on completing their matriculation.

For students who are deficient in the language subjects and are admitted as conditioned students, special preparatory classes are provided. Students are advised, however, that the additional work required in carrying these preparatory classes constitutes a handicap which should be avoided if possible.



## MATRICULATION EXAMINATIONS

**Partial Students.** Students who are proceeding to a degree but who are not registered for a full undergraduate course, or who during the session drop two courses, are partial students.

**Special** students are those who, not belonging to one of the above classes of students, are pursuing the study of particular subjects. Such students may, subject to the approval of the Committee on Admissions, attend classes without previous examination, but any classes so taken can not be credited towards a degree.

### Matriculation Examinations

Examinations for entrance to the University are conducted three times each year, in April, June and September, under the control of the High School and University Matriculation Examinations Board. The subjects of examination follow. Applications for these examinations should be made about two months before the date of examination to the secretary of the High School and University Matriculation Examinations Board, Department of Education, Government Buildings, Edmonton. The examinations in April are for the students of affiliated colleges only.

### Matriculation Conditions

Students should plan to enter the University with standing in all their Matriculation subjects. It is recognized that certain students have not had an opportunity in their schools of obtaining instruction, for example, in the languages; accordingly they lack complete matriculation standing and have to carry these subjects as "conditions." To meet the needs of students for whom language conditions are unavoidable, beginners' courses are provided in Latin, French, and German, namely: Latin A, French A, and German A. However, no student who has the opportunity to prepare these subjects at high school should postpone them until he reaches college.

The University limits the number of conditions which a student may carry to *two*; a student who enters with two language conditions accordingly *may not carry any other conditions*. Even though his Matriculation requirements contain only *one* language, a student may in certain courses be required to study *two* languages in his first year; such a student should, if



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at all possible, come to the University prepared in both languages; in any case he may not carry more than two conditions. Moreover, no student should propose to carry two conditions in a single language, e.g. to enter Engineering without the French of Grade XI (or of Junior Matriculation), for in that case he would be unable to clear his conditions by the end of his first year.

In the course for the M.D. degree (Faculty of Medicine) the student is not permitted to enter the second year until all the *matriculation* subjects (including languages) and all the subjects of the *First Year* have been passed.

In the courses leading to the degrees of B.Sc. in Architecture and B.Sc. in Engineering (Faculty of Applied Science) the student must clear off all *matriculation* conditions before entering the Second Year.

### Matriculation Scholarships

In 1922 there are offered eight scholarships of \$25 each, given by the Senate and the Board of Governors of the University.

Six of these scholarships will be awarded on the results of the June examinations set by the High School and University Matriculation Examinations Board. The other two scholarships will be awarded on the results of the April examinations held for the affiliated colleges. One of these scholarships is available for those candidates taking the examination in Edmonton, the other for those in Calgary. Only those candidates who write on the whole of the matriculation examination and pass in each subject thereof will be eligible for these scholarships.

The Women's University Club Scholarship of \$25.00 is open to women students only on the results of the June Grade XI (Matriculation) examinations for highest standing in English, History, Latin, and French, provided the student passes her other examinations and obtains an average mark of not less than 75 per cent. in the four subjects named. The scholarship is payable after the student is in actual attendance at the University, and is to be applied towards defraying the fees for tuition.



## MATRICULATION SCHOLARSHIPS

**The Returned Soldier Scholarship** offered by a returned soldier of Calgary, of the value of \$150 a year for three years. Awarded for the highest standing in the Province on the Grade XII examinations of 1920. Winner: John McIntyre Cassels.

**The P. Burns Scholarship** offered by Mr. P. Burns of Calgary, of the value of \$150 annually. Awarded for the highest standing obtained by a student in Calgary on the Grade XII examinations, and payable after the student is in actual attendance at the University. Winner for 1920: Miss Barbara Villy; for 1921: George Salt.

**Daughters of the Empire Bursary.** A Bursary of \$250 a year for four years, offered by the Imperial Order of the Daughters of the Empire as a part of its War Memorial, awarded to the candidate in Matriculation examinations, who, in the judgment of the Committee, best meets the purpose in view of the foundation of the Bursary. The candidate must be the son or daughter of a killed or permanently disabled soldier, sailor, or member of the air force. It is tenable at the University of Alberta.

### Equivalent Examinations

The Grade IX certificate of Alberta is accepted in the subject of British History, the Grade X certificate in the subjects of English Grammar and Canadian History, the Grade XI certificate pro tanto for the other subjects of matriculation and the Grade XII certificate pro tanto for the first year courses in Arts and Sciences at the University. Requests for exemption from the matriculation examination based on these or other certificates should be addressed to the Registrar, University of Alberta.

### Advanced Standing

Any student of another university wishing to be admitted to this university with equivalent standing is required to send with his application:

1. A calendar of the university in which he has studied.
2. A detailed transcript of his record.
3. Honorable dismissal from the university at which he has studied.



## Matriculation Examination Requirements

A.—For students presenting Grade IX and Grade X certificates, the various lists of matriculation subjects are as follows:

I.—In the Faculty of Arts and Sciences. For the degrees of B.A., B.Sc. in Arts, B.Sc. in Household Economics, and B. Com., Grade XI (or Junior Matriculation) in the following subjects:

1. **English Composition.**
2. **English Literature.**
3. **History** (General and Canadian Constitutional).
4. **Arithmetic.**
5. **Algebra.**
6. **Geometry.**
7. **Latin, or Greek, or French, or German.**
- \*8. and 9. Two of the following: **Physics, Chemistry, Agriculture**, a second language from No. 7.

II.—For B.Sc. in Pharmacy (Faculty of Arts and Sciences) Grade XI (or Jun. Matric.) in the following:

1. **English Composition.**
2. **English Literature.**
3. **History** (General and Canadian Constitutional).
4. **Arithmetic.**
5. **Algebra.**
6. **Geometry.**
7. **Latin.**
8. **Chemistry.**
9. **Physics.**
10. **French or German.**

III.—For the licentiate course in Pharmacy (School of Pharmacy). As in I. above.

IV.—For B.Sc. in Architecture (Faculty of Applied Science) Grade XI (or Jun. Matric.) in the following:

1. to 6. **As in I. above.**
7. **French or German.**
8. **Physics.**

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\*Students presenting two sciences for matriculation must take a beginner's language course in the first year.



## MATRICULATION REQUIREMENTS

V.—For D.D.S. (Faculty of Medicine) Grade XI (or Jun. Matric.) in the following:

1. **English Composition.**
2. **English Literature.**
3. **History** (General and Canadian Constitutional).
4. **Arithmetic.**
5. **Algebra.**
6. **Geometry.**
7. **Latin.**
8. **Chemistry.**
9. **Physics.**
10. **French or German.**

VI.—For LL.B. (Faculty of Law) Grade XI (or Jun. Matric.) in the following:

1. **English Composition.**
2. **English Literature.**
3. **History** (General and Canadian Constitutional).
4. **Arithmetic.**
5. **Algebra.**
6. **Geometry.**
7. **Latin.**
8. and 9. Two of the following: **Physics, Chemistry, Agriculture**; a second language, **Greek, French, or German**;

and the subjects of First Year Arts or Grade XII.

VII.—For B.Sc. in Engineering (Faculty of Applied Science) Grade XI (or Jun. Matric.) in the following:

1. **English Composition.**
2. **English Literature.**
3. **History** (General and Canadian Constitutional).
4. **Arithmetic.**
5. **Algebra.**
6. **Geometry.**
7. **French or German.**
8. **Physics.**
9. **Chemistry.**

and the subjects of First Year Arts ("for engineering") or the following subjects of Grade XII: **English, History, French or German, Algebra, Geometry, Trigonometry, Physics.**



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VIII.—For M.D. (Faculty of Medicine) Grade XI (or Jun. Matric.) in the following:

1. **English Composition.**
2. **English Literature.**
3. **History** (General and Canadian Constitutional).
4. **Arithmetic.**
5. **Algebra.**
6. **Geometry.**
7. **Latin.**
8. **Chemistry.**
9. **Physics**
10. **French or German**, and the subjects of First Year Arts or Grade XII.

B.—For those not presenting Grade IX and X certificates.

I.—For those intending to take the course leading to B.A., B.Sc. in Arts, B.Sc. in Household Economics, B.Com. or the Licentiate Course in Pharmacy:

1. **English Grammar**
2. **English Composition.**
3. **English Literature.**
4. **British and Canadian History.**
5. **History** (General and Canadian Constitutional).
6. **Arithmetic.**
7. **Algebra.**
8. **Geometry.**
9. and 10. Two of the following: **Latin, French, German, Greek.**
11. One of the following: **Physics, Chemistry, Agriculture**, a third language (to be selected from 9 and 10)

II.—Those entering upon other courses are required to pass in subjects 1 to 8 inclusive, but there are certain variations in the remaining subjects, as follows:

For B.Sc. in Engineering.—A Modern Language, (French or German), Physics and Chemistry, and Grade XII standing in the following subjects: English, History, French or German, Algebra, Geometry, Trigonometry, and Physics, or the equivalent work in first year Arts at the University; no work in the first year Applied Science course to be allowed while the first year Arts course is being taken.



## DETAILS OF MATRICULATION SUBJECTS

For B.Sc. in Architecture.—French (or German), and Physics, and certain original drawings (details on application).

For D.D.S., or B.Sc. in Pharmacy.—Latin, Chemistry, Physics, and either French or German.

For M.D. or LL.B.—As for D.D.S. or B.Sc. in Pharmacy together with the subjects of First Year Arts or Grade XII.

- III.—(a) For those intending to take the three years course leading to the degree of B.S.A., the entrance requirement is a Certificate of Qualification from a Provincial School of Agriculture, or its equivalent.
- (b) For those intending to take the three years course leading to the degree of B.H.Ec., the entrance requirement is a Certificate of Qualification from a Provincial School of Agriculture. In addition to the recommendation of the Principal of a School of Agriculture, candidates for the three years course must produce a certificate of having passed all the regular examinations of the second year at one of the Schools of Agriculture with a least 60 per cent. of the marks in each subject.

## Details of Matriculation Subjects

### English Literature—Poetry.

Shakespeare: *Coriolanus*; Tennyson: *Gareth and Lynette*, or *Lancelot and Elaine*; Selected Lyrics (Palgrave's Golden Treasury); "*I met a traveller from an antique land*" (Shelley); "*Milton! thou shouldst be living at this hour*" (Wordsworth); "*Earth hath not anything to show more fair*" (Wordsworth); "*My heart aches, and a drowsy numbness pains*" (Keats); "*Ruin seize thee, ruthless King!*" (Gray); "*Hail to thee, blithe spirit*" (Shelley); "*Ye banks and braes o' Bonny Doon*" (Burns); "*Waken, lords and ladies gay*" (Scott); "*I am monarch of all I survey*" (Cowper); "*There was a time when meadow, grove and stream*" (Wordsworth).

NOTE.—Choice selections from the above poems should be memorized.



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### English Literature—Prose.

Macaulay: *Clive*; Austen: *Pride and Prejudice*.

### Collateral Reading.

Lytton: *Last of the Barons*; Butler: *Life of Gordon*.

Goldsmith: *She Stoops to Conquer*.

### Composition and Rhetoric.

Essays based on current topics, history and subjects chosen from the texts prescribed for collateral reading. Review of work prescribed for former grades together with Part II of the prescribed text. Text-book: *Ontario High School English Composition* (Copp Clark Co.).

### History.

General History to the close of Feudalism (p. 181), constitutional history of Canada. Text-books: Botsford: *A History of the World* (Macmillan Co. of Canada). Bourinot: *How Canada is Governed* (Copp, Clark Co.).

### Algebra.

A review of the work of Grades IX and X. Square and cubic roots; quadratics; equations of the second degree involving one and two unknowns; problems involving quadratics; character of the roots of a quadratic equation; relation between the roots and coefficients of a quadratic equation and problems to illustrate these relations; graphical solution of simultaneous linear and quadratic equations involving one and two unknowns; surds and surd equations, theory of indices; applications to problems arising in daily life. Crawford's *High School Algebra* (omitting sections 247-254).

### Geometry.

Books III, IV, V and Propositions 4-8 inclusive of additional Propositions. Exercises and review. Text-book: Baker's *Theoretical Geometry for Schools*.



## DETAILS OF MATRICULATION SUBJECTS

### **Business Arithmetic.**

*Review of Fractions and Decimals:* Contracted multiplication and division of Decimals.

*Percentage:* Simple and Compound Interest; Present Worth; Stocks and Bonds; Partnership; Domestic and Foreign Exchange; Partial Payments; Equation of Payments; Life, Accident and Health Insurance; Banking (Savings and Current Accounts).

*Mensuration:* Sphere; Frustra of Cone and Pyramid. Review Cone, Pyramid, Cylinder, Prism, similar figures.

*Ratio and Proportion.*

*Longitude and Time.*

*Simple Graphs:* Comparison of Magnitudes; relation between two variables such as altitude and pressure, temperature and time, volume and pressure, volume and pressure, distance and rate of motion, varying production from year to year. A technical discussion of Axes and Coordinates is not intended.

Text-book: *High School Arithmetic* (Hunter Rose & Co.).

### **Chemistry.**

As in the prescribed text. The course shall be conducted experimentally as far as possible. Text-book: *Chemistry, a Text-book for High Schools*, by Cornish (Macmillan Co.).

### **Agriculture.**

No text has yet been authorized. A full outline of the course to be covered is printed separately and may be obtained upon application to the Department of Education.

### **Physics.**

Chapters XVIII-XXIII inclusive; Chapters XXXII-XXXIX inclusive; Chapters XLI-XLVIII inclusive and Chapter L. Text-book: *The Ontario High School Physics* (Merchant & Chant).

### **Latin.**

Grammar and Composition: *Ontario High School Latin Book* (Robertson & Carruthers). Reading: 1922-23—Caesar: *Bellum Gallicum*, Book IV, Chapters XX-XXXVIII; Book V, Chapters I-XXIII; Virgil: *Aeneid*, Book II, lines 1-227.



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The examination in Latin will consist of two papers, one on the Authors and Sight Translation, the other on the Grammar and Composition. One-fifth of the marks for the former paper will be assigned to Sight Translation.

### French.

Grammar. Siepmann's Primary French Course (Macmillan).

Reading and Composition. Translation of the prescribed French Literature; translation at sight of passages of average difficulty from texts not prescribed; simple written composition; special emphasis in oral composition. Text-book: Labiche et Martins *La Poudre aux Yeux* (Holt).

It is recommended that the New Fraser and Squair Complete *French Grammar* be used as supplementary to Siepmann in this grade.

### German.

Grammar. *First Year German* (Collar): Review work of preceding grades and cover remainder of text-book.

Reading and Composition. Translation of the prescribed literature; translation at sight of passages of average difficulty from texts not prescribed; simple written composition and special emphasis on oral composition. Text-book: Ernst: *Flachsmann als Erzieher* (Ginn & Co.).

Examinations in French and German in Grade XI shall consist of three parts: 1st, a written test in Grammar and Composition; 2nd, a written test based on the prescribed Authors and Sight Translation; 3rd, an oral test in Conversation and Dictation.

The marks shall be allotted as follows: 50% to the paper on Grammar and Composition, 25% to the paper on Translation and 25% to the oral test.

# Undergraduate Scholarships, Prizes and Medals

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## Scholarships

**The Women's University Club Scholarship.** This scholarship, of the value of \$50, will be awarded to the woman student who takes the highest standing in the work of the First Year of the Faculty of Arts and Sciences, provided that, to secure the award, an average of not less than seventy-five per cent. be obtained on the work of the year. Further, the award will be contingent upon the student's proceeding with the work of the second year and will be paid only after the student has been in actual attendance in the second year of her course.

**The Scholarships of the College of Physicians and Surgeons of the Province of Alberta.** These are five in number and will be awarded as follows:

1. One to the student taking the highest average mark in the work of the freshman year.
2. One to the student taking the highest average mark in all courses in pure Physiology of the second and third years.
3. One to the student taking the highest average mark in all the courses in Anatomy of the second and third years.
4. One to the student taking the highest average mark in Surgery at the end of the final year.
5. One to the student taking the highest average mark in Medicine at the end of the final year.

**Pharmaceutical Association Scholarships,** offered by the Alberta Pharmaceutical Association.

1. A scholarship of forty dollars to the student making the highest average mark in all subjects of the first year of the Licensing Course, provided that the mark obtained in any subject does not fall below 60%.



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2. A scholarship of forty dollars to the student making the highest average mark in all subjects of the third year of the Degree Course, provided that the mark obtained in any subject does not fall below 60%.

### Prizes

**The Jane Alexander Memorial Prizes.** These are offered annually by Professor W. H. Alexander, in memory of his mother. The subjects are:

1. Latin Prose Composition and Latin Sight Translation (by special examination).
2. Geology, on the basis of the regular tests and examinations in Geology 51 and 52.

**The Gordon Stanley Fife Memorial Prize,** offered by Professor A. L. Burt, in memory of his colleague, and to be awarded to the graduating student who has taken the highest average mark in two or more Senior History Courses.

**Prize in the History of Medicine,** offered by Dr. H. C. Jamieson for an essay on some phase of the earlier development of Anatomy or Physiology.

**The Harold Waldo Huestis Memorial Prize.** A prize to the value of \$25, to be awarded at the spring Convocation each year, to the second year student, taking five full courses, who has obtained the highest mark in English of the second year, provided that the student has displayed marked proficiency in English Composition.

**The Bennett Prize.** A first prize of \$60, and a second prize of \$40 open for competition to all students in the University and affiliated colleges except those of graduate standing. The award of these prizes is based upon:

- (a) An essay on a prescribed body of material having to do with intelligent and effective Canadian citizenship.
- (b) An examination (for which only those who have written the essays are eligible) on a part or all of the material described in section (a).

## PRIZES

A representative committee of five members will be appointed to select the topic for the essay, to prescribe the reading, to set the examination and to act as judges in making the award.

For details for the current session apply to the Registrar.

**Prize in Mathematics**, of the value of \$10 each, offered by Dr. E. W. Sheldon and Mr. C. E. Race:

1. A prize open to students taking Mathematics 3, the award being based on the marks made in the regular work of the year as well as in a special problem paper.
2. A prize for those students in Mathematics 1 who are not taking Mathematics 3, the award to be based on the marks in Mathematics 1 and in a special problem paper.

**The Samuel Richard Hosford Memorial Prize.** A prize of books valued at \$15, to be awarded to the undergraduate student making the best record in English 53.

**The Vallée French Prize.** The Vallée French Prize in books, offered by Professor A. Vallée, of Laval University, in remembrance of the Honourable P. J. O. Chauveau, first Prime Minister of the Province of Quebec, open to undergraduates registered in French 1—3, and to be awarded on the results of a special examination.

**Société du Parler Français Prize.** A prize of books of the value of ten dollars, offered by the Société du Parler Français, to the student enrolled in French 4—5 who makes the best average record in the test and final examinations in this course.

**Le Comité Permanent de la Langue Française Prize.** A Prize of books of the value of fifteen dollars, offered by Le Comité Permanent de la Langue Française, to the student making the best record in French 54.

**Historical Club Prize.** An annual prize of books of the value of fifteen dollars, offered by the Historical Club of the University of Alberta, to the student making the best record in History 2, provided such student receive first class standing on his year's work in History and pass in all other subjects.



## UNIVERSITY OF ALBERTA

**Stutchbury Research Prize.** A prize to the value of \$25.00 offered by Howard Stutchbury, Esq., to be awarded at the spring Convocation to a fourth year student in the departments of Geology or Mining Engineering for a paper on original work. Originality of method and of presentation will be the basis of award which will be made by a committee of three, chosen from the members of the Scientific and Industrial Research Council of Alberta.

**Prizes of The Association of Professional Engineers of Alberta.** Awards of \$100.00 cash to be made to one student in each of the Civil, Electrical and Mining Engineering Departments on the basis of individual talent, application and diligent study. The prizes will be awarded by a committee consisting of the President of the University, the Dean of the Faculty of Applied Science and members of this faculty selected by the Dean.

**Canadian Institute of Mining and Metallurgy Prizes.** A prize to the value of \$25.00 offered by the Northern Alberta Branch of the C. I. of M. & M. to the student in the fourth year of Mining Engineering who presents the best paper on original research work carried out by him in Mining Engineering.

Also a prize of \$15.00 open under the same conditions to students in the third year of Mining Engineering.

## Medals

1. **The Governor-General's Gold Medal**, offered by His Excellency, the Governor-General of Canada, for the highest standing in the two senior years of the Faculty of Agriculture.

2. **The Charles Allan Stuart Gold Medal**, offered by the Hon. Mr. Justice Stuart, Chancellor of the University, and open for competition to students in the graduating year, reading for honours in the Department of Classics.

3. **The Alexander Cameron Rutherford Gold Medal**, offered by the Hon. A. C. Rutherford, LL.D., and open for competition to students in the graduating year, reading for honours in the Department of English.



## MEDALS

4. **The Women's University Club Gold Medal**, offered by the Women's University Club of Edmonton, and awarded to that student in the graduating class of the Faculty of Arts and Sciences, general course, who takes the highest standing in the eight senior courses required in the third and fourth years, provided that an average mark of not less than seventy-five per cent. be obtained.

5. **The John A. McDougall Gold Medal**, offered by John A. McDougall, Esq., and awarded to the student taking the highest standing in the senior courses required in the last two years in Applied Science, provided, however, that an average mark of not less than seventy-five per cent. be obtained.

6. **The Lieutenant-Governor's Gold Medal** for the study of Shakespeare.

This medal is open for competition to students in any department of the University and in any one of the affiliated colleges, but not to students of graduate status. The award is based upon:

- (a) An examination upon a small group of Shakespeare's plays, the titles to be announced in each spring for the ensuing year.
- (b) An essay on a subject selected by a representative committee nominated by the President of the University.

For 1922-23, the plays under (a) are: Shakespeare's *As You Like It*, *Much Ado About Nothing*, *Twelfth Night*, and Congreve's *Way of the World*. The essay subject under (b) for 1922-23 is: "A Contrast between Shakespeare's *As You Like It* and Congreve's *Way of the World*." For 1922-23 the committee consists of Dr. Broadus, Dean Kerr, and Dr. Gordon.

8. **The Chief Justice's Gold Medal**, offered by the Honourable Horace Harvey, Chief Justice of Alberta, for highest standing in the work prescribed for the LL.B. degree.

9. **The James Ramsey Gold Medal**, offered by James Ramsey, Esq., M.L.A., and open to students in the graduating year, reading for honours in the Department of Mathematics.



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10. **The Moshier Memorial Medal**, offered by the Volunteer Overseas Medical Officers Association of Edmonton, in memory of the late Lieutenant-Colonel H. H. Moshier, to be awarded for general proficiency in the Faculty of Medicine, upon completion of the courses offered at this University.

11. **Pharmaceutical Association Medals**, offered by the Alberta Pharmaceutical Association.

- (a) A gold medal to the student making the highest average mark in all subjects of the final year of the Licentiate Course, provided that the mark obtained in any subject does not fall below 60% and that the average obtained in all subjects is not less than 75%.
- (b) A gold medal to the student making the highest average mark in all subjects of the final year of the Degree Course, provided that the mark in any subject does not fall below 60% and that the average obtained in all subjects is not less than 75%.

12. **Le Club Laverendrye Gold Medal In French**. This medal is offered annually by Le Club Laverendrye and awarded to the student who receives the highest standing in the general courses in French of the third and fourth years, provided that the student's record is considered satisfactory by the Council of the Faculty of Arts and Sciences.

## Graduate Fellowship

### The Lloyd Hartnoll Bishop Memorial Fellowship in English Literature

A fellowship in English Literature has been founded by E. T. Bishop, Esq., to be known as the Lloyd Hartnoll Bishop Memorial Fellowship, and to be conferred on the graduating student who, during his undergraduate course, has shown unmistakable evidence of literary ability. The present emolument of this Fellowship is \$200.00. Attention is called to the fact that this is a special award and not necessarily given each year.

## SCHOLARSHIPS

### **Daughters of the Empire Post-Graduate Overseas Scholarship**

This scholarship was founded by the Imperial Order, Daughters of the Empire, as part of the War Memorial of the Order. It is of the value of \$1400.00, tenable for one year in any British University, the subjects of study being specified as British and Imperial History, the economics and government of the Empire and Dominion, or any subject vital to the interest of the Empire. The scholarship is open to men and women, British subjects, unmarried, graduates of a Canadian University or in the last year of a course leading to a degree.

In awarding the scholarship, the committee of selection will take into consideration the war services of the candidate, and the members of his or her family, and, other things being equal, will give preference to a returned soldier, his sister or child.

### **The Rhodes Scholarships**

In addition to the preceding Scholarships, Prizes and Medals which are under the control of the University of Alberta, there is also available for the Province of Alberta each year one Rhodes Scholarship. The permanent committee of selection for the Province of Alberta is as follows:

His Honour, the Lieutenant-Governor, Chairman.

The Honourable, the Chief Justice of the Province.

The Honourable, the Minister of Education.

The Chancellor of the University of Alberta.

The President of the University of Alberta.

Professor Burt.

Secretary of the Committee, D. S. MacKenzie, Esq.

Candidates must be at least in their sophomore year at a recognized degree-granting university or college of Canada, and (if elected) must complete the work of that year before going into residence at Oxford. Competitive examinations



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may be held under the auspices of the provincial committees. Each scholarship is tenable for three years, with a stipend of £350 per annum.

The following students of the University of Alberta have obtained this scholarship:

1913—Walters Farrel Dyde.

1915—Henry Grattan Nolan.

1917—Henry Alexander Dyde.

1918—Alan Burnside Harvey.

1919—Daniel Roland Michener.

1920—Walker Dunham.

1921—George Victor Ferguson.

1922—Stuart Perry Hamilton.

### FIRST CLASS GENERAL STANDING

Those Students who, in the work of any one year, attain an average mark of not less than eighty-five per cent., are awarded First Class General Standing.

### THE 1851 EXHIBITION SCIENCE RESEARCH SCHOLARSHIP

Three of these Scholarships are granted each year in Canada and may be applied for by students of eight Canadian universities of which this University is one. They are of the value of £250 per annum for two, or in rare instances, three years, together with certain possible allowances for fees and travelling expenses. The object of the Scholarship is "to enable students to continue the prosecution of science with a view of aiding in its advance or in its application to the industries of the country". Open to students of not less than three years standing who have shown evidence of capacity for original research and is tenable at any University or other institution approved by the Committee.

# University Regulations

## Fees

The University reserves to itself the right to change these fees from year to year without notice.

### I.—In Arts (including degree courses in Pharmacy Commerce, and Household Economics):

(a) Undergraduates and Conditioned Students:	
Instruction per session .....	\$ 35.00
Students' Union (compulsory) .....	7.00
"A" Language courses, each .....	10.00
(b) Special and Partial Students—	
Registration Fee .....	2.00
Instruction per session per course .....	10.00
*Students' Union (compulsory) .....	4.50
(c) Summer Students—	
Registration Fee .....	1.00
Instruction per session per course .....	5.00

### II.—In Applied Science:

(a) Undergraduates and Conditioned Students—	
Instruction per session, first and second years.....	75.00
Instruction per session, in subsequent years	100.00
Students' Union (compulsory) .....	7.00
(b) Special Students:	
Registration Fee .....	4.00
Instruction per session, per course .....	20.00
*Students' Union (compulsory) .....	4.50

### III.—In Law:

Instruction per session .....	40.00
Instruction for Extra Mural students in Calgary and Edmonton .....	15.00
Examination Fee (payable to Law Society)	15.00
*Students' Union (compulsory for students in attendance) .....	7.00

\*Special students taking two full courses in the University have at registration the option of paying the full Union fee of \$7.00, entitling them to full voting privileges.



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IV.—In Medicine and Dentistry:	
Instruction per session, first year .....	100.00
Instruction per session, in subsequent years....	150.00
Students' Union (compulsory) .....	7.00
V.—In Accountancy (Evening Classes):	
Instruction per session (Intermediate course)	25.00
Instruction per session (Final course) .....	50.00
VI.—Pharmacy Licensing Course:	
Instruction per session, first year .....	50.00
Instruction per session, second year .....	75.00
Students' Union (compulsory) .....	7.00
VII.—In Agriculture (including the three year course in Household Economics):	
(No fee for instruction for the present).	
Students' Union (compulsory) .....	7.00
VIII.—Graduate Courses:	
Master of Arts .....	15.00
Bachelor of Divinity .....	15.00
Bachelor of Education, per year .....	15.00
IX.—Medical service fee (required of all students)	
	3.00
X.—Caution Money: Every student is required to deposit \$5.00 caution money to cover dam- ages done to furniture, apparatus, books, etc. This amount, less any necessary de- ductions, will be returned at the end of the session. Breakages exceeding this amount must be paid for before the student is per- mitted to take any examination.	
XI.—For viséing Certificates .....	
	2.00
XII.—For Transcript of Record .....	
	1.00
XIII.—For Supplemental Examinations:	
Each subject.....	3.00
For Special Supplementals:	
First subject .....	10.00
Each additional subject .....	5.00

## REGISTRATION

### XIV.—For Degrees (whether in course or ad eundem) :

B.A. ....	10.00
B.Sc. in Arts .....	10.00
B.Sc. in Pharmacy .....	10.00
B.Sc. in Household Economics .....	10.00
B.Com. ....	10.00
B.Sc. in Applied Science.....	10.00
M.A. ....	10.00
M.Sc. ....	10.00
M.D. ....	10.00
LL.B. ....	10.00
B.S.A. ....	10.00
B.D. ....	10.00
B.Educ.....	10.00

XV.—For diploma in Pharmacy ..... 10.00

XVI.—Library Fee (required of all students) ..... 5.00

## Room and Board

Room and Board in residences, October 1st to May 1st .....	\$266.00
Board only, payable in advance, per month .....	26.00
Meal ticket (21 meals) .....	7.50

## Registration

There are certain forms to be filled out by applicants for enrolment in the University. The student should secure early in the summer an application form from the Registrar of the University. Moreover the student should himself write to the Department of Education of the Province in which he obtained his preliminary education, not later than July 15th, asking him to send directly to the Registrar of the University a confidential transcript of the complete High School record of the applicant, including Matriculation standing. This should be done to avoid delays embarrassing both to the student and the University.

The applicant for entrance to the First Year, having already sent in his application form, will complete his registration in conference with advisers at the University on Monday and Tuesday, Sept. 25th and 26th.



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Students are required to register for courses in which they are deficient before registering for other courses. The Faculty Councils reserve the right to adjust courses to meet the requirements of the time-table. When the programme of work for which a student is seeking registration has been approved, he may obtain his cards of admission at the Cashier's desk on payment of the proper fees. The student must present one of these cards to each of his instructors in order that his name may be placed upon the class record.

### Attendance and Lateness

Strict attendance rules calling for close attendance upon lectures from the beginning of the session are enforced. Late entrance is inadvisable, because a bad start in his courses seriously affects the student's work and may even result in the loss of his whole year.

Registration after the first day of lectures will be permitted only upon the following conditions:

(a) Illness, accident, family affliction, employment under contract, or other exceptional circumstances, provided that any application for late admission shall be accompanied by a confirmatory certificate, and

(b) The payment of a special registration fee of \$3.00.

No student will be permitted to take the final examination in any course if his absences exceed ten periods in courses of three periods a week throughout the session, six periods in courses of two periods a week, or four periods in courses of one period a week. Absences are counted from the beginning of the term.

Students desiring to present excuses for absence on the ground of sickness or physical disability must, within one week of the date when that absence occurred or when the period of absence terminated, report their wish to the Registrar. This officer will promptly forward to the head of the University medical service the names of such students and the dates for which they claim exemption, and upon the endorsement of this claim by the proper authority such excuses will be filed to constitute part of the year's attendance record. No other form of excuse in regard to sickness or physical disability can be accepted.



## EXAMINATIONS

Excuses for absence on the ground of domestic affliction must be presented to the Registrar direct and also within one week as above specified. Any other excuse which a student cares to present must be made within the same time limit to the Registrar in person, and the judgment of that officer upon its validity shall be final, subject to an appeal to the General Faculty Council.

Students who are late for any lecture or university exercise will be marked absent upon the records of the instructor in charge, unless at the end of the period in question they account satisfactorily to the instructor for their lateness, (in which case he will, without destroying the mark of absence, indicate his acceptance of the excuse by making an X over the a). The decision of the instructor shall be final, subject only to an appeal to the Committee on Examinations.

Students desiring leave of absence in any given course must communicate their desire to the Registrar. When such leave of absence has been granted, the student is exempted from the operation of the attendance rule above.

### Examinations

The University examinations are conducted by a University Examining Board appointed by the Senate and are under the direction of the Committee on Examinations.

#### 1. Sessional Examinations

(a) In Junior courses, as a rule, there are held two one-hour tests and one final examination. Fifteen per cent. of the whole credit in the course is assigned to each test. In English 1, however, and in the composition courses in French, German, Greek and Latin, tests are replaced by weekly exercises throughout the year, and to these exercises is assigned fifty per cent. of the whole credit in the course. The same arrangement exists with regard to junior courses in Mathematics, in History 1, and in Physics 1, where regular weekly exercises and short problem papers supplement the normal test papers.

(b) In certain senior courses the test examination method is followed; and fifteen per cent. of the whole credit in the course is assigned to each test. In other senior courses the assignment of thirty per cent. for term work is allotted to essays and practical examinations. In certain senior courses,



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subject to the approval of the General Faculty Council, term tests may be eliminated and the evaluation be on the final examination alone. Announcement is made at the beginning of the session as to the policy to be pursued by each department in this respect.

(c) In each course there is held a final examination. Seventy per cent. of the whole credit in the course is assigned to this examination, except in the case of certain junior courses referred to in paragraph (a) where the allotment is fifty per cent. only. The final examinations are held at the end of the session except in courses completed before Christmas; in such courses the final examinations are held during the last week of lectures in December. In these courses the allotment of marks is seventy per cent. to the final examination and thirty per cent. to the test.

(d) When a student is absent from a test his mark for that test is zero. However, in case of illness or domestic affliction an application for aegrotat standing (i.e., an allowance of 50 per cent. for a test missed by illness, if required for a pass) will be considered if such application is made immediately, in writing, to the Registrar. In the case of illness causing absence from final examination, the general rule is that supplementals in September are granted to students of the first and second years whose term record is satisfactory. In the case of senior students, the Faculty may grant aegrotat standing under similar circumstances.

(e) When intercollegiate games or conferences fall within any period of tests, members and officers of the teams and official delegates to conferences shall, at least one week before the beginning of the test period, make a request in writing to the Registrar in order that a readjustment of the time-table may be considered.

(f) In the publication of standing in the various courses, students are grouped by classes, the first class comprising those who have obtained eighty-five per cent. and over, the second class, those who have obtained between sixty-five and eighty-four per cent., and the third class, those who have obtained between fifty and sixty-four per cent. Fifty per cent. is the minimum for a pass.

(g) Final examination papers may be re-read on an appeal, accompanied by a fee of \$5, being made to the Registrar within sixty days after the publication of the results, the fee to be returned if the appeal is sustained and the student passed in the course.



## SUPPLEMENTAL EXAMINATIONS

### Supplemental Examinations

Supplemental examinations are conducted by the University in September of each year. Students who have failed in any course the preceding year but whose attendance record was satisfactory and whose final average was at least 30% may apply for permission to take supplementals. In reckoning standing for a supplemental examination, the credits already obtained in the tests will apply as described above under Sessional Examinations. Students neglecting to take or failing to pass the supplemental examination are required to repeat the course. A fee of \$3 is charged for each of these supplemental examinations. For any special examination granted by a Faculty Council, to be held at any other time than the regular date for supplemental examinations a fee of \$10 is charged for the first subject and \$5 for each additional subject taken at the same time.

Special supplemental examinations will be granted (by the Committee on Examinations) only under exceptional circumstances. An application for a special supplemental must be accompanied, in the case of illness, by a medical certificate, and in the case of employment under contract, by a statement from the employer certifying the date on which the student's contract expired.

Application for special supplementals will be received up to the tenth day of October, and these examinations shall be conducted as soon as possible thereafter, at dates determined by the Committee on Examinations.

Students in Agriculture may be admitted to supplemental examinations at or about the time of the beginning of lectures in Agriculture at the regular fee of \$3 per paper, except in cases where such supplementals would involve the setting of more than one supplemental paper in any course, in which case the special fee of \$10 shall apply.

Either by statutory provision or by agreement the examinations for the right to secure registration with the following professional societies in the Province of Alberta are under the control of the University:—

The Alberta Association of Architects.

The Alberta Land Surveyors' Association.

The Alberta Dental Association.



## UNIVERSITY OF ALBERTA

The College of Physicians and Surgeons of Alberta.

The Law Society of Alberta.

The Alberta Pharmaceutical Association.

The Institute of Chartered Accountants of Alberta.

The Association of Registered Nurses of Alberta.

The Association of Professional Engineers of Alberta.

The Veterinary Association of Alberta.

The Alberta Optometric Association.

Information with respect to these examinations can be obtained on application to the Registrar.

### Discipline

The Provost is the chief disciplinary officer of the University. He exercises general supervision over the conduct and welfare of the students, especially with regard to the students in residence.

By resolution of the Senate, a Committee on Student Affairs has been constituted as follows: "The President of the University, the Chancellor, the Chairman of the Board, the Provost, one member to be elected from each Faculty; two members to be elected from the Senate (these not to be Faculty representatives); the Adviser to women students; the president of the Students' Union; the president of the Athletic Society; the president of the Literary Department of the Students' Union; the president of the Wauneita Society; the editor-in-chief of "The Gateway"; three members to be elected from the Students' Council."

Under the same resolution, the duties of this Committee are:

(1) "to deal with

- (a) all matters referred to in the University Act, Article 41, subsections 18 and 19;
- (b) all other matters relating to students' interests not therein referred to provided that in the event of any decision of this committee being

## DISCIPLINE

challenged by a non-student member, the decision must, to be valid, be ratified by a majority of the non-student members present; provided further that the right of appeal to the Senate against any such decision shall lie with the student members."

- (2) for misconduct in the lecture-room, a student may be required by the instructor to leave the lecture-room. Persistent misconduct shall be reported to the President of the University, who may suspend from lectures pending the action of the Committee on Student Affairs.
- (3) The following disciplinary ruling with regard to Athletics, submitted by the Faculty of Arts and Sciences and the Students' Union, was adopted by the Senate at its meeting of March 31st, 1911:

"Hereafter no persons except **bona fide** students who are in attendance at the University, or at one of the group of organized affiliated colleges carrying full work and whose scholastic record is certified as satisfactory by the Faculty Council of the University or by the respective colleges in which they are registered, shall be permitted to play on or be officers of any athletic team representing the University of Alberta."

Satisfactory scholastic standing shall be understood, in general, to mean that a student has not failed in more than two subjects at the last regular tests or examinations and obtained an average of not less than fifty per cent. on the whole.

The Faculty Council has entrusted to the Committee on Scholastic Standing the administration of these regulations which have been enlarged to include the following activities:

1. Athletics: All competitions with outside organizations whether conducted within or outside of the University.
2. Dramatic Performances: (a) The annual play of the Dramatic Society, (b) The French play.



## UNIVERSITY OF ALBERTA

3. Debates: All debates with outside organizations, whether conducted within or outside of the University.
4. Such other activities of general interest as may be submitted to the Faculty for its approval from time to time.

By **bona-fide** students shall be understood:

- (a) Students who are doing full undergraduate work in the University.
  - (b) Graduate students in attendance following any course of studies leading to a degree.
  - (c) Students in affiliated colleges, taking two full courses of university grade in the University.
  - (d) Other special students, being fully matriculated, who are taking two full courses of university grade in the University.
- (4) In all cases of discipline involving offences against the student body, a student may appeal from decisions of that body or of any court constituted by it, to the Committee on Student Affairs.
  - (5) No student shall be permitted to continue in attendance at the University whose presence is for any cause deemed by the Committee on Student Affairs prejudicial to the interests of the University.
  - (6) All regulations affecting the Students' Union and the Students' Court are subject to the approval of the Committee on Student Affairs.

### Withdrawal of Students

In accordance with the regulation of the Senate, passed May 11th, 1921, a student whose record in the class-room, in tests, or in final examinations is unsatisfactory, may at any time be required to withdraw from the University.

### Residences

Residential accommodation is provided in the University for four hundred students. All students not living with parents or guardians must reside in the University residences or in places approved of by the University authorities.

Rooms will be assigned by the Provost and applications for reservations, accompanied by twelve dollars (\$12.00), must be in the hands of the Bursar by September 5th. Reservations will not be held after September 28th, unless arrangements are made with the Bursar.



## RESIDENCE

Each student to whom a room is assigned will be required to deposit one dollar (\$1.00) for keys and will receive a red ticket showing name, number of room, and date of entry. Upon presentation of this ticket to the House Superintendent, keys will be issued. Students vacating rooms during, or at the end of the term, must return this red ticket to the Cashier, signed by the House Superintendent, showing date of leaving, in order to obtain any rebate or deposit on keys.

Students must notify the Bursar before vacating rooms, otherwise no rebate will be considered. No exchange of rooms will be allowed unless arrangements are made with the Bursar and approved by the Provost.

Room and Board is payable in advance. Arrangements for monthly payments may be made with the Bursar. Students leaving the University during Christmas holidays will be allowed rebate at the rate of eight-five cents per day for Board only, from December 23rd to January 3rd, but application must be made to the Bursar before leaving so that rebates may be arranged. Students arriving before October 1st or leaving after May 1st will be charged at the rate of \$1.35 per day.

Students not residing in the University residences may obtain meals in the University dining room by purchasing red and white tickets from the Cashier at the rate of twenty-six dollars (\$26.00) per month, which arrangement is presumed to continue throughout the term 1922-23 unless the students notify the Bursar otherwise. Students may also obtain white tickets for twenty-one meals at the rate of \$7.50 per ticket which may be used at any time.

The conduct of students in residence is subject to the authority of the House Committee, under the Board of Governors. This committee consists of the Provost, the Adviser to Women Students and two resident students from each of the University Halls. A special sub-committee of the House Committee, under the direction of the Adviser to Women Students, will deal with matters relating solely to the women students. The resident members shall be fourth year or graduate students and shall be elected within two weeks after the beginning of the session. Any vacancy thereafter occurring shall be filled at a special election to be held within two weeks after the occurrence of the said vacancy. Only students who have been



## UNIVERSITY OF ALBERTA

in residence at least one year shall have the right to vote at elections of members of the House Committee.

In all cases of discipline involving, or appearing to involve, the interests of the residences, a student may appeal from decisions of the Students' Union or of any student court to the House Committee.

### Medical Service

All students registered in the University are required by the Students' Union to pay an annual fee of three dollars which is applied to the maintenance of a Medical Service Fund. This trust fund is administered by a committee consisting of the President of the University, the Provost, the Medical Director and the President of the Students' Union. In return for the fee paid, students are entitled to free medical treatment in case of illness or accident during the academic year. Students must secure from the Bursar a Medical Service card to be presented to the Director on demand. This includes provision for hospital charges, nursing, medicine, ambulance, physician's fees and the cost of minor operations. No provision, however, is made for cases of illness contracted before the beginning of the session, chronic diseases, major operations, or cases not immediately reported to the Medical Director. The Medical Director will in all cases decide if transference to the hospital is advisable and if so, what accommodation is necessary. He shall also decide who the attending physician shall be, and in the event of operation shall determine to what consideration the patient is entitled. The Medical Director also certifies to the Registrar with regard to exemptions from lectures or tests claimed by students on the ground of sickness.

### Student Functions

All student functions are conducted under the general supervision of the Provost, and except by special permission are held in the University buildings. A written communication for permission to use a University Building for such purpose must be addressed to the Provost at least ten days before the date set for any function.

### Meetings of Student Societies

Applications for the use of rooms for students' meetings must be made to the Registrar.



## Academic Costume

By a resolution of the Senate, students of the senior years are required to wear gowns at all classes and lectures, and at such functions as may at any time be specified.

All gowns are to be of the customary Cambridge shape; i.e., for undergraduates a black stuff gown not falling below the knee with round sleeve cut above elbow; for bachelors, a black stuff gown falling below the knee with full sleeve cut to elbow and terminating in a point; for masters, a black stuff or silk gown falling below the knee with long sleeves with semi-circular cut at bottom.

Hoods are to be of the Oxford pattern, except those for the doctorate, which shall be of the Cambridge form.

Bachelors' and Masters' hoods are to be of a spruce green silk, with, for bachelors, a border ( $1\frac{1}{2}$  inches each way); for masters, a full lining of the color distinctive of the faculty.

The faculty colours are:

	Green and
For Arts (including LL.D.)	White.
For Science	Light Green
For Law	Cream
For Medicine	Rose
For Agriculture	Pale Blue
For Education	Lilac
For Dentistry	Buff
For Pharmacy	Cinnamon
For Divinity	Purple
For Household Economics	Pink

Doctors' hoods are to be of scarlet silk, with a full lining of the respective faculty colour, the M.D. hood to be of the master's pattern.

Doctors are entitled to wear a full dress scarlet robe faced with silk of the respective faculty colour.

All caps are to be of the ordinary black trencher shape with black tassels, with a black velvet cap with gold cord for doctor's full dress.

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For the convenience of students, the University maintains a book store where textbooks prescribed in the University calendar may be obtained. Gowns, drawing material, athletic costumes and other accessories are also kept in stock.



# Organization of Faculties

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The University reserves the right to modify or withdraw for the session any of the courses here outlined.

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## FACULTY OF ARTS AND SCIENCES

The courses leading to the degrees of B.A., B.Sc. in Arts, B.Sc. in Household Economics, B.Sc. in Pharmacy and B.Com. are divided into two groups—junior courses and senior courses. A course is to be regarded as designating normally three hours lectures or three hours lectures and three hours laboratory work in a subject each week throughout the session. The junior courses are designed for students in the first and second years, the senior courses for students in the third and fourth years. The junior courses are, in general, to be regarded as preparatory to the senior courses.

Certain University courses in the first and second years are offered in co-operation with the Summer School for Teachers which is held annually in the months of July and August at the University of Alberta. Detailed information may be obtained from the Dean.

Students must continue two subjects throughout the third and fourth years.

Students may be exempted from two senior courses selected from Divisions A and B by presenting certificates of having satisfactorily completed an equivalent amount of work in one of the organized affiliated theological colleges.

A common first year is laid down for all students in the Faculty of Arts and Sciences, but, thereafter, in accordance with a classification of studies into three general groups, courses are, with certain restrictions, largely elective.

### Divisions of Courses of Instruction

- A. Languages and Literatures.
- B. Philosophy, History, and Political Economy.
- C. Mathematics, and Natural Sciences.

In accordance with this scheme the Junior, Senior, Honours, and Graduate courses leading to the degrees of B.A., B.Sc. in Arts, M.A., and M.Sc., are classified as follows:

## DIVISION OF COURSES

### DIVISION A Lang. and Lit.

### DIVISION B Philos., Hist. and Pol. Econ.

### DIVISION C Math. and Natural Sciences

#### \*Junior Courses—First Year:

English: 1.	Hist.: 1.
French: A, 1—3.	
Greek: 1.	
German: A, 1—3.	
Latin: A, 1 & 3.	

Physics: 1.  
Math.: 1, 2, 3.

#### \*Junior Courses—Second Year:

English: 2.	Hist.: 2, 3.
French: 5—4.	Phil.: 2.
German: 2—4.	
Greek: 2 & 4.	Pol. Econ.: 1.
Latin: 2 & 4.	

Bot.: 1.  
Chem.: 1.  
†Geol.: 33.  
Math.: 7, 22, (55  
& 56).  
Physics: 3a & 3b, 6  
8, 12.  
Zoology: 1.

#### Senior Courses:

Classics in English 51.	**Ancient Hist.: 51.
English: 53, 57, 58, 59, 60.	Hist.: 54, 56, 58.
French: 51, 55.	Phil.: 51, 52, 53.
German: 52.	Psychol.: 51, 52, 54, 55, 56.
Greek: 55.	Pol. Ec.: 63, 66, 67.
Hebrew: 51, 52.	Architecture 62.
Latin: 57.	

Biochemistry: 61.  
Botany: 51, 52.  
Chem.: 51, 52, 54,  
58.  
Geol.: 51, 53, 55,  
58, 62.  
Math.: 53, 55, 56,  
57, 58, 61, 63.  
Physics: 51, 53, 54,  
57.  
Physiol.: 61.  
H. Econ.: 51, 52.

#### Honours and Graduate Courses:

English: 106, 107.	Hist.: 101.
French: 101, 102.	Philos.: 101, 102, 103.
German: 101, 102.	Pol. Ec.: 102.
Latin: 104, 111.	Psychol.: 104, 105.

Bot.: 101, 102, 103.  
Chem.: 101, 102.  
Geol.: 101, 102,  
103.  
Math.: 101, 103,  
106, 110.  
Physics: 101.

\*And Phys. Ed.: 1 & 2.

†Open only to candidates for Honours in Botany, and B.Com. students.

\*\*See under Department of Classics.



# UNIVERSITY OF ALBERTA

## DEGREE OF B.A. OR B.Sc. IN ARTS

### FIRST YEAR

SUBJECT	Course No.	Lect. Hours	Pge.
English .....	English 1 .....	3	128
*French .....	French 1—3 .....	3	152
*German .....	German 1—3 .....	3	152
*Greek .....	Greek 1 .....	3	120
*Latin .....	Latin 1—3 .....	3	120
History .....	History 1 .....	3	138
Mathematics .....	Mathematics 1 .....	3	145
Physics .....	Physics 1 .....	3†	164
Physical Education .....	Physical Education 1 .....	..	172

†Two hours a week of laboratory work are also required.

\*Any two of these are to be taken, but students presenting two sciences for matriculation must take a beginner's course language in the first year. See "A" Courses under departmental announcements.

With a view to enable entrance deficiencies in the languages to be overtaken, the opportunity is offered to students who have obtained at least second class standing in an "A" language course to pursue during the following summer, under the direction of the Department concerned, the respective sequent course in French 1, German 1 or Latin 1, provided that it is the intention to continue the language in question through the second year. Information respecting details may be had from the Registrar.

### B.A.—GENERAL COURSE

- Second Year:**
1. One course from Division A.
  2. One course from Division B.
  3. One course from Division C.
  4. 5. \*Two options.
  6. Physical Education 2.

\*Permissible to take two of the five courses in one department, but not in more than one.

Students entering with Grade XII standing must select either Chemistry or Physics of the second year.

## B.Sc.—GENERAL COURSE

- Third Year:** 1. 2. Two courses from Division A.  
3. One course from Division B.  
4. \*One option.

or

1. 2. Two courses from Division B.  
3. One course from Division A.  
4. \*One option.

\*Not more than two courses are to be selected from any one department.

- Fourth Year:** 1. 2. Two courses from Division A.  
3. One course from Division B.  
4. \*One option.

or

1. 2. Two courses from Division B.  
3. One course from Division A.  
4. \*One option.

\*Not more than two courses are to be selected from any one department.

## B.Sc. IN ARTS—GENERAL COURSE

The distinction between the B.A. and the B.Sc. in Arts becomes apparent in the second year. The student who in his second year chooses three courses from Division C is regarded as a candidate for the degree of B.Sc. in Arts.

- Second Year:** 1. One course from Division A.  
2. One course from Division B.  
3. 4. 5. \*Three courses from Division C.  
6. Physical Education 2.

\*Not more than two courses are to be selected from any one department.

- Third Year:** 1. 2. Two courses from Division C.  
3. One course from Division A or Division B.  
4. \*One option.

\*This optional course to be related to one of the courses from Division C and to be approved by the Committee on Science studies.



## UNIVERSITY OF ALBERTA

- Fourth Year:** 1. 2. Two courses from Division C.  
3. One course from Division A or Division B.  
4. \*One option.

\*This optional course to be related to one of the courses from Division C and to be approved by the Committee on Science studies.

### DEGREES WITH HONOURS IN THE FACULTY OF ARTS AND SCIENCES

The courses in honours differ from the general courses in that they are planned with a view to specialization, and are open only to students who have displayed exceptional ability in the junior courses. Students must have in the second year attained Class I in the subjects in which they propose to specialize, in order to be eligible to read for Honours.

Students who have attained Class II in a subject may, by permission of the Committee on Honours, in consultation with the head of the department concerned, be allowed to proceed to Honours. The third year must be entered without conditions in any subject. Students must begin their courses in Honours in the third year, and in order to graduate with Honours, must continue this work through the third and fourth years.

1. In general, Honours are granted by departments rather than by subjects.
2. Students in the second year, looking forward to reading for Honours in the third and fourth years, are required to take courses in two divisions, but in the third and fourth years may confine their work to one division, but not to one department.
3. Students reading for an Honours degree are required to take regularly at least four courses in each of the two final years.

## HONOURS COURSES

4. Students shall be regarded as candidates for the B.Sc. in Arts who restrict all courses to Division C in the third and fourth years, and as candidates for the B.A. when they select an option in each of the third and fourth years from a second division.
5. Students are not permitted to take more than one course in a given year in any subject in which they are not reading for Honours.
6. Honours students wishing to secure the academic standing requisite for the Specialist's Certificate, to be issued by the Provincial Department of Education, must conform to the requirements laid down by the Department.

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### HONOURS COURSES—DEPARTMENTAL REQUIREMENTS

#### Department of Botany

**Second Year:** Prerequisites to Honours in Botany.

Chem. 1; Botany 1; Geol. 33; one option from A or B; one option from Division C.

**Third Year:** Bot. 51; Geol. 51; Bot. 102; one option from a second division or 6 hrs practical Botany.

or

Bot. 51; Chem. 54; Bot. 102; one option from a second division or 6 hrs practical Botany.

**Fourth Year:** Bot. 52; Chem. 52; Bot. 101; one option in a second division or 6 hrs practical Botany.

or

Bot. 52; Biochemistry 61; Bot. 103; one option from a second division or 6 hrs practical Botany.



## UNIVERSITY OF ALBERTA

### Department of Chemistry

**Second Year:** Prerequisites to Honours in Chemistry. Chemistry; Mathematics; Physics 6; one option (affiliated subject recommended); one option in second division.

**Third Year:** B.A. or B.Sc.  
Chem. 101; Chem. 51; Chem. 58; option.  
or  
B. Sc. only.  
Chem. 103; Chem. 51; Mathematics; Physics.

**Fourth Year:** Chem. 102; Chem. 54; two options.  
or  
Chem. 104; Chem. 52; Chem. 58; option in a second department.

### Department of Classics

**Second Year:** Prerequisites to Honours in Classics.  
Latin 2 and 4; Greek 2 and 4; Classics in English 51; English, one course; Philosophy or Political Economy, one course.

**Third Year:** Either Greek or Latin as a major; two courses (Latin 103, 53 or Greek 101, 56); Latin or Greek, one course (Latin 53, Greek 56) as a minor; one optional course.

**Fourth Year:** As for Third Year above. (Latin 103, 52 or Greek 101, 56); (Latin 52, Greek 56).

Note regarding the character of the Senior courses: of the major courses, one, specifically an Honours course; the second, a general course in which Honours students will follow a different line of work from that followed by the general student. The minor course to be a general course treated as the second major above.

### Department of English

**Second Year:** English 2; Classics in English 51; History 2; a foreign language; an option.

or  
Prerequisites to Group B.  
English 2; Classics in English 51; Latin or French; History 3; an option.

## HONOURS REQUIREMENTS

### **Third Year:** Group A.

English 52, 53, 54, 55, 57, 58, 59, 60, (one of these; not all given every year); English 106; two options.

### Group B.

English 52, 53, 54, 55, 57, 58, 59, 60, (one of these; not all given every year); English 104; two options.

### **Fourth Year:** Group A.

English 52, 53, 54, 55, 57, 58, 59, 60, (one of these; not all given every year); English 107; two options.

English 52, 53, 54, 55, 57, 58, 59, 60, (one of these; not all given every year); English 105; two options.

## **Department of History**

### **Second Year:** Prerequisites to Honours in History.

History 2; History 3; Pol. Econ. 1; English 2; one option.

### **Third Year:** History 101; History 58, (1922-23); any one of the following: History 53, History 54, History 56; one option.

### Group B.

### **Fourth Year:** History 102; History 57, (1923-24); any one of the following: History 53, History 54, History 56; one option.

**Note:** Students not possessing a fair reading knowledge of French or German are advised to take a Modern Language in the first and second years.

## **Department of Mathematics**

### **First Year:** Prerequisites to Honours in Mathematics. Recommended: Math. 3.

### **Second Year:** Mathematics, two junior courses; Physics, one junior course; one option in A or B; one option.



## UNIVERSITY OF ALBERTA

**Third Year:** Mathematics, one Honours course and two senior courses; Physics or Pol. Ec., one senior course.

**Fourth Year:** Mathematics, one Honours course and two senior courses; one senior course (a Natural Science, Pol. Ec., Education, Philosophy, or Psychology).

**Note:** Students not possessing a fair reading knowledge of French or German are advised to take a Modern Language in the first and second years.

### Department of Modern Languages

**Second Year:** Prerequisites to Honours in Modern Languages. French 4—5; German 2—4; English 2, or (for students intending to major in French) Latin 2 and 4; History 2; Philosophy 1 or 2.

**Third Year:** French 51 and 55, (for 1922-23); German 52; English or one course from Division B.

or

German 51 and 52; French 51; English or one course from Division B.

**Fourth Year:** French 51 and 55, (for 1922-23); English or Phil. or Hist.; Conference Course 101 and 102.

or

German 51 and 52; English or Phil. or Hist., Conference Course 101 and 102.

**Notes:** 1. Special prescribed summer readings will be allotted to all Honours students.

2. A thesis, the topic of which must be selected before the close of the third year, will be required of all students reading for Honours. This thesis must be in the hands of the head of the department by March 31 of the graduating year.

## HONOURS REQUIREMENTS

### Department of Philosophy

**Second Year:** Prerequisites to Honours in Philosophy. Philosophy 1 or Philosophy 2; option in a second division; three free options.

**Third Year:** Phil., two courses; Psychol., one course; option in a second department.

or

Psychol., two courses; Phil., one course; option in a second department.

**Fourth Year:** Phil., two courses; Psychol., one course; option in a second department.

or

Psychol., two courses; Philos., one course; option in a second department.

**Note:** Honours students in the Department of Philosophy will meet one hour per week to discuss problems of contemporary philosophy.

### Department of Physics

**Second Year:** Prerequisites to Honours in Physics. Physics; Math. 55 and 22; Chem. 1; one option from a second division.

**Third Year:** Physics, two courses; Math. 57; one option.

**Fourth Year:** Physics, two courses; one option in Division C; one option.

### Department of Political Economy

**Second Year:** Prerequisites to Honours in Political Economy. Political Economy 1; Psychology 2; History 2; two options.

**Third Year:** Political Economy 102; Political Economy 63; Political Economy 66 or 67; one option.

**Fourth Year:** Political Economy 101; Political Economy 64; Political Economy 65; one option.



## UNIVERSITY OF ALBERTA

### THE DEGREE OF B.Sc. IN HOUSEHOLD ECONOMICS

#### Junior Courses.

**First Year:** As for B.A.

**Second Year:** One course Division A; Chemistry 1; Zoology 1; Political Economy 1; Household Economics 2 and 3; Bacteriology 2, first term; Household Economics 1, second term; Physical Education 2.

#### Senior Courses.

**Third Year:** One course from Division A or B; Chemistry 52; Physiology 61 (lectures); Biochemistry 61; Household Economics 55.

**Fourth Year:** One course from Division A or B; Food Chemistry; Hygiene and Sanitation 51; Household Economics 56, 57, 58, 59.

For an outline of the course leading to the degree of B.H.Ec., see the Faculty of Agriculture, p. 94.

### THE DEGREE OF BACHELOR OF COMMERCE (B.Com.)

**First Year:** As for B.A.

**Second Year:**

1. Political Economy 1.
2. Geology 33 (First Half); Political Economy 10 (Second Half).
3. A modern language (already taken for Matriculation and first year).
4. Accountancy 1.
5. Chemistry 1.
6. Phys. Ed. 2.

#### Third and Fourth Years:

1. Mathematics of Investment.
2. Currency, Banking and Finance.
3. Trade and Transportation.—Not offered 1922-23.
4. Business Administration and Marketing.—Not offered 1922-23.
5. Commercial Law.

## B.Sc. IN PHARMACY

6. A Modern Language (already taken in second year).
- 7 and 8. Any two of:
- (a) A foreign language.
  - (b) Accountancy 52.
  - (c) Insurance.—Not offered 1922-23.
  - (d) Statistics.—Not offered 1922-23.
  - (e) Another course in Economics.
  - (f) Accountancy 53.—Not offered 1922-23.
  - (g) Psychology 54.
  - (h) A science.

## II—THE B.Sc. DEGREE IN PHARMACY

### JUNIOR COURSES—FIRST YEAR

SUBJECT	Course No.	Lect. Hours	Pge.
English Composition .....	English 1 .....	3	128
*French .....	French 1—3 .....	3	152
History .....	History 1 .....	3	138
Latin .....	Latin 1—3 .....	3	120
Mathematics .....	Mathematics 1 .....	3	145
Physics .....	Physics 1 .....	3†	164
Physical Education .....	Physical Education 1 .....	3	172

\*German may be substituted for French at the option of the student.

†Two hours a week of laboratory work are also required.

### JUNIOR COURSES—SECOND YEAR

SUBJECT	Course No.	Lect. Hours	Lab. Hours	Pge.
Botany .....	Bot. 1 .....	3	3	110
Chemistry .....	Chem. 1 .....	3	3	112
English .....	Eng. 2 .....	3	..	128
*Mathematics .....	Math. 7 .....	3	..	145
*History .....	Hist. 2 .....	3	..	138
*Political Economy .....	Pol. Ec. 1 .....	3	..	168
*Zoology .....	Zool. 1 .....	3	3	172
Physical Education .....	Phys. Ed. 2 .....	3	..	172

\*History 2 is optional with Political Economy 1, and Mathematics 7 optional with Zoology 1.



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### SENIOR COURSES—THIRD YEAR

SUBJECT	Course No.	Lect. Hours	Lab. Hours	Pge.
Botany .....	Bot. 51	3	3	110
Chemistry .....	Chem. 52	3	3	112
Materia Medica .....	M. M. 51	4	..	144
Pharmacy .....	Pharm. 51, 52 & 54	4	6	157
*Toxicology .....	Toxic. 61	1*	..	171

\*First half session.

### SENIOR COURSES—FOURTH YEAR

SUBJECT	Course No.	Lect. Hours	Lab. Hours	Pge.
Chemistry .....	Bact. 61	1	3	109
Materia Medica .....	Bioch. 61	3	..	110
Bacteriology .....	Chem. 51	3	3	112
Pharmacy .....	M. Med. 52	3	..	144
Latin .....	Pharm. 55	..	6	157
Biochemistry .....	Lat. 66	1	..	120

## COMBINED COURSES

Courses of study have been arranged associating the courses for the B.A. degree with those leading to degrees in the other Faculties. Details of these Combined Courses will be found in the statements of the associated Faculties; for B.A., B.Sc. on p. 79, for B.A., M.D. on p. 83, for B.A., LL.B. p. 89, and for B.A., B.S.A. on p. 93.

## FACULTY OF APPLIED SCIENCE

The University offers two groups of courses in Applied Science leading to the B.Sc. degree; one in Engineering (Civil, Electrical or Mining); the other in Architecture. Graduate work also is offered leading to the degree of M.Sc. (Calendar page 96).

It is recommended that students who intend to enter the Faculty of Applied Science should, if at all possible, take the

## B.Sc. IN ENGINEERING

Combined Course in Arts and Applied Science; in which case the students cover all the work of the four years' curriculum in Applied Science and in addition secure in the Arts subjects a broader foundation of education. For the outline of this Combined Course refer to p. 79.

## THE B.Sc. DEGREE IN ENGINEERING

The requirements of the first and second years of the three divisions of Engineering groups are uniform, and are designed to give the general foundation in mathematics and in physical and chemical science necessary to specialization in the various branches of Engineering in the last two years. In this group a course in French or German is also offered, specially adapted to an Applied Science curriculum.

Students of this University who may wish to study branches of Engineering, for which the equipment for third and fourth year work has not been completed, may finish their course at certain universities of Eastern Canada, where, according to arrangement, they will be admitted **ad eundem statum**.

### JUNIOR COURSES—FIRST YEAR

SUBJECT	Course No.	First Lect.	Half Lab.	Sec. Lect.	Half Lab.	Pge.
Science & Engineering.		..	..	..	..	
Mechanical Drawing ....	Draw. 2	..	3	..	3	125
Descriptive Geometry .	Draw. 4	1	3	1	3	125
English .....	English 2	3	..	3	..	128
*French or German .....	F. or G. 41	2	..	2	..	152
Elem. Math. Anal. ....	Math. 21	6	..	6	..	145
Elementary Mechanics .	Math. 22	2	3	2	3	145
Physics .....	Phys. 3	3	3	3	3	164
Physical Education .....	Phys. Ed. 1	..	3	..	3	172

\*The language taken in matriculation.



# UNIVERSITY OF ALBERTA

## JUNIOR COURSES—SECOND YEAR

SUBJECT	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
Survey School .....	C. E. 6	..	..	..	..	116
Chemistry .....	Chem. 1	3	3	3	3	112
Applied Mechanics .....	C. E. 1	..	..	3	..	116
Mapping .....	C. E. 2	..	3	..	..	116
Materials of Const. ....	C. E. 3	2	..	2	..	116
Mechanical Drawing ....	Draw. 5	..	3	..	3	125
*French or German ....	F. or G. 42	2	..	2	..	152
Geology .....	Geol. 32	2	..	..	3	135
Calculus & Mechanics .	Math. 25&26	6	..	6	..	145
Physics .....	Phys. 6	3	3	3	3	164
Physical Education .....	Phys. Ed. 2	3	..	3	..	172

\*The language taken in the first year.

## A—CIVIL ENGINEERING\*

### SENIOR COURSES—THIRD YEAR

SUBJECT	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
Survey School .....	C. E. 7	..	..	..	..	116
Hydraulics .....	C. E. 55	..	..	3	3	116
App. Thermodynamics ..	C. E. 57	2	..	2	3	116
Structural Design .....	C. E. 62	1	..	1	3	116
Applied Mechanics .....	C. E. 67	3	3	2	..	116
Applied Electricity .....	E. E. 53	2	3	2	..	126
Geology .....	Geol. 52	3	3	..	..	135
Astronomy .....	Math. 53	3	..	3	..	145
Graphical & Numerical Methods .....	Math. 63	..	..	2	3	145
Economics .....	Pol. Ec. 62	2	..	..	..	168
Problems in Labor Man- agement .....	Pol. Ec. 68	..	..	2	..	168

\*Students in Civil Engineering are strongly advised to work in a drafting office during one summer, in order to gain necessary practical experience.

# ELECTRICAL ENGINEERING

## SENIOR COURSES—FOURTH YEAR

SUBJECT	Course No.	First Lect.	Half Lab.	Sec. Lect.	Half Lab.	Pge.
Foundations .....	C. E. 52	1	..	1	..	116
Theory of Structures ....	C. E. 53	3	..	3	..	116
Water Supply & Sew. Disp. ....	C. E. 59	2	3	2	3	116
Structural Design .....	C. E. 63	2	3	2	3	116
Testing Lab. ....	C. E. 66	..	3	..	3	116
Land Transportation ....	C. E. 74	3	..	3	..	116
San. Science .....	Hyg. 51	1	..	..	..	109
Problems in Labor Management .....	Pol. Ec. 68	..	..	2	..	168
*Optional Subject .....		..	..	..	..	

\*Problems in Labor Management, or Municipal Accountancy  $\frac{1}{2}$  term, 3 hrs. per week for students looking forward to following a career in city management.

## B—ELECTRICAL ENGINEERING

### SENIOR COURSES—THIRD YEAR

SUBJECT	Course No.	First Lect.	Half Lab.	Sec. Lect.	Half Lab.	Pge.
App. Thermodynamics .	C. E. 57	2	..	2	3	116
Applied Mechanics .....	C. E. 67	3	3	2	..	116
Applied Electricity .....	E. E. 51	3	6	3	6	126
Mechanics of Machines	E. E. 55	1	1	1	1	126
Machine Design .....	E. E. 54	2	..	2	..	126
Advanced Calculus .....	Math. 59	2	..	2	..	145
Electrical Physics .....	Phys. 53	2	3	2	3	164
Economics .....	Pol. Ec. 62	2	..	..	..	168

### SENIOR COURSES—FOURTH YEAR

SUBJECT	Course No.	First Lect.	Half Lab.	Sec. Lect.	Half Lab.	Pge.
Hydraulics .....	C. E. 55	..	..	3	3	116
Power, Dist., Light and Tract. ....	E. E. 58	2	..	2	..	126
Alternating Currents ....	E. E. 59	3	6	3	6	126
Elec. Applic. & Design ..	E. E. 60	2	3	2	3	126
Telegraphy and Tele- phony .....	E. E. 61	2	..	..	..	126
Electro-Chem. & Met. ..	E. E. 62	2	..	2	..	126
Machine Design .....	E. E. 63	2	..	..	..	126
San. Science .....	Hyg. 51	1	..	..	..	109
Econ. & Bus. Law .....	Pol. Ec. 68 or 69	..	..	2	..	168



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## C—MINING ENGINEERING

### SENIOR COURSES—THIRD YEAR

SUBJECT	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
Inorganic Chemistry .....	Chem. 51	3	3	3	3	112
Economics .....	Pol. Ec. 62	2	..	..	..	168
Pol. Economy .....	Pol Ec. 68	..	..	2	..	168
App. Electricity .....	E. E. 53	2	3	2	..	126
Hydraulics .....	C. E. 55	..	..	3	3	116
App. Thermodynamics ..	C. E. 57	2	..	2	3	116
App. Mechanics .....	C. E. 70	2	..	..	..	116
Petrology .....	Geol. 52	3	3	3	3	135
Mineralogy .....	Geol. 54	2	3	1	3	135
Fire Assaying .....	M. E. 54	1	3	..	..	148
Mine Survey School .....	M. E. 57	..	..	..	..	148

### (a) Coal Mining Option

### SENIOR COURSES—FOURTH YEAR

SUBJECT	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
App. Electricity .....	E. E. 53	2	3	2	..	126
Sanitary Science .....	Hyg. 51	1	..	..	..	109
Pol. Economy .....	Pol. Ec. 68	..	..	2	..	168
Stratigraphy (Hist. Geol.)	Geol. 56	..	..	3	3	135
Mineral Deposits .....	Geol. 58	3	..	3	3	135
Prepared Fuels .....	M. E. 55	..	..	2	..	148
Coal Mining .....	M. E. 59	2	3	2	..	148
Mining Machinery .....	M. E. 61	3	..	..	..	148
Ventilation .....	M. E. 62	1	..	..	..	148
Mine Design .....	M. E. 64	..	3	..	..	148
Fuel Analysis .....	M. E. 65	..	6	..	6	148
Compressed Air Machinery .....	M. E. 66	2	..	..	..	148

## B.Sc. IN ARCHITECTURE

### (b) Metal Mining Option

#### SENIOR COURSES—FOURTH YEAR

SUBJECT	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
Quant. Analysis .....	Chem. 56	..	6	..	6	112
App. Electricity .....	E. E. 53	2	3	2	..	126
Sanitary Science .....	Hyg. 51	1	..	..	..	109
Pol. Economy .....	Pol. Ec. 68	..	..	2	..	168
Petrography .....	Geol. 57	..	3	..	..	135
Mineral Deposits .....	Geol. 58	3	..	3	3	135
Metallurgy .....	M. E. 58	2	..	2	3	148
Metal Mining .....	M. E. 60	2	..	2	..	148
Mining Machinery .....	M. E. 61	3	..	..	..	148
Ore Dressing & Milling .	M. E. 63	2	..	2	3	148
Mine Design .....	M. E. 64	..	3	..	..	148

### (c) Mining Geology Option

#### SENIOR COURSES—FOURTH YEAR

SUBJECT	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
Quant. Analysis .....	Chem. 56	..	6	..	6	112
Sanitary Science .....	Hyg. 51	1	..	..	..	109
Pol. Economy .....	Pol. Ec. 68	..	..	2	..	168
Stratigraphy .....	Geol. 55	3	3	3	3	135
Petrography .....	Geol. 57	..	3	..	..	135
Mineral Deposits .....	Geol. 58	3	..	3	3	135
Metallurgy .....	M. E. 58	2	..	2	..	148
Metal Mining .....	M. E. 60	2	..	2	..	148
Mining Machinery .....	M. E. 61	3	..	..	..	148
Ore Dressing & Milling	M. E. 63	2	..	2	..	148

## THE B.Sc. DEGREE IN ARCHITECTURE

The course of study in Architecture of the first year includes a number of subjects in the Faculty of Arts and Sciences, some from the Engineering course, together with Architectural and Freehand Drawing adapted to the Architectural course. In succeeding years scientific and technical subjects are studied to the extent required in the practice of Architecture. Throughout the course increasing attention is given to Architectural design.



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## JUNIOR COURSES—FIRST YEAR

SUBJECT	Course No.	First Lect.	Half Lab.	Sec. Lect.	Half Lab.	Pge.
Arch. Drawing .....	Draw. 1	..	6	..	6	125
Freehand Drawing .....	Draw. 3	..	3	..	3	125
Descriptive Geometry ....	Draw. 4	1	3	1	3	125
English .....	English 1	3	..	3	..	128
French .....	French 41	2	..	2	..	152
History .....	History 1	3	..	3	..	138
Gen. Elem. Math. ....	Math. 1 & 2	6	..	6	..	145
Physics .....	Phys. 1	3	3	3	3	164
Physical Education .....	Phys. Ed. 1	..	3	..	3	172

## JUNIOR COURSES—SECOND YEAR

SUBJECT	Course No.	First Lect.	Half Lab.	Sec. Lect.	Half Lab.	Pge.
Survey School .....	C. E. 6	..	..	..	..	116
Arch. Drawing .....	Arch. 2	..	3	..	3	106
Arch. Design .....	Arch. 3	..	6	..	9	106
History of Arch. ....	Arch. 4	2	..	2	..	106
Building Const. ....	Arch. 5	..	6	..	6	106
Decorative Arts .....	Arch. 6	..	4	..	4	106
Mapping .....	C. E. 2	..	3	..	..	116
History of Ancient World	*Ancient					
	History 51	3	..	3	..	120
French .....	French 42	2	..	2	..	152
Elem. Math. Anal. ....	Math. 21	6	..	6	..	145
Physical Education .....	Phys. Ed. 2	..	3	..	3	172

## SENIOR COURSES—THIRD YEAR

SUBJECT	Course No.	First Lect.	Half Lab.	Sec. Lect.	Half Lab.	Pge.
Arch. Drawing .....	Arch. 51	..	3	..	3	106
Arch. Design .....	Arch. 52	1	9	1	9	106
History of Arch. ....	Arch. 54					
	or 55	2	..	2	..	106
Decorative Arts .....	Arch. 56	..	3	..	3	106
Specifications .....	Arch. 58	1	..	..	..	106
Building Construction ..	Arch. 61	..	6	..	6	106
Mat. of Construction ....	C. E. 3	2	..	2	..	116
Applied Mechanics .....	C. E. 71	2	3	2	..	116
Sanitary Science .....	Hyg. 51	1	..	..	..	109

\*See under Department of Classics.

## COMBINED COURSES

### SENIOR COURSES—FOURTH YEAR

SUBJECT	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
Architectural Design ....	Arch. 52	1	15	1	15	106
History of Arch. ....	Arch. 55	2	..	2	..	106
Decorative Arts ....	Arch. 57	1	3	1	3	106
Ventilation & Heating ..	Arch. 60	1	..	..	..	106
Foundations .....	C. E. 52	1	..	1	..	116
Structural Design .....	C. E. 62	1	..	1	3	116
Testing Lab. ....	C. E. 66	..	3	..	3	116

## COMBINED COURSES

### I—COMBINED COURSE LEADING TO THE DEGREES OF B.A. AND B.Sc. IN ENGINEERING

**First Year:** English 1, Modern Language, 2nd Language, History 1, Mathematics 1 or 3, Physics 1 or 3, Phys. Ed.

**Second Year:** One Junior Course from A or B, Modern Language from A (the same as in 1st yr.), Chemistry 1, Mathematics 21, Mathematics 22—Mechanics, Zoology or Botany, Phys. Ed.

**Third Year:** Two Senior Courses from A and B, Math. 55—Calculus, Physics 3 or 6 or 8 or 12, Geology 51, Drawing 2 and 4, Science and Engineering (1st half).

**Fourth Year:** C. E. 6—Survey School, Two Senior Courses from A and B, One Senior Course from C (Physics 6, if not already taken), Math. 56, —Mechanics, C. E. 1—Applied Mechanics (2nd half), C. E. 3—Materials of Construction, Draw. 5—Mechanical Drawing, C. E. 2—Mapping (1st half).

**Note:** Where any of the courses taken are equivalent to the courses required in the third and fourth years of Applied Science, substitute courses must be arranged in conjunction with the Department concerned.



## UNIVERSITY OF ALBERTA

**Fifth Year:** .C. E. 7—Survey School. As in Applied Science, third year of Department chosen.

**Sixth Year:** As in Applied Science, fourth year of Department chosen.

### II—COMBINED COURSE LEADING TO THE DEGREES OF B.A. AND B.Sc. IN ARCHITECTURE

**First Year:** English 1, History 1, Mathematics 1 or 3, Physics 1 or 3, French, Latin, Phys. Ed.

**Second Year:** English 2, French, Chemistry, Political Economy 1, Mathematics 21, Mathematics 22—Mechanics, Phys. Ed.

**Third Year:** English 52 or 53 or 59, French 52, History of the Ancient World 51, Physics 3 or 6 or 8 or 12, Architecture 62, Drawing 3, Drawing 4.

**Fourth Year:** Two Senior Courses from A and B, one Senior Course from C., C.E. 6—Survey School, C.E. 2—Mapping, Arch. 4—History of Architecture, Arch. 5—Building Construction, Drawing 1, Arch. 6—Decorative Arts.

**Fifth Year:** As in Third Year Architecture.

**Sixth Year:** As in Fourth Year Architecture.

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## FACULTY OF MEDICINE

Two courses are offered, one leading to the degree of Doctor of Medicine, the other to the degree of Doctor of Dental Surgery.

### THE DEGREE OF DOCTOR OF MEDICINE

The course leading to this degree is arranged on the basis of a six-year curriculum, of which the work of the first four years is now offered.

The attention of students is called to the Combined Course leading to the degrees of B.A., M.D., details of which are given on p. 83.

## MEDICINE

### JUNIOR COURSES—FIRST YEAR

SUBJECT	Course No.	First Lect.	Half Lab.	Sec. Lect.	Half Lab.	Pge.
Botany .....	Bot. 2	3	2	3	2	110
Zoology .....	Zoology 2	3	3	3	3	172
Chemistry .....	Chem. 2	3	6	3	6	112
Physics .....	Phys. 11	3	2	3	2	164
French or .....	French 45 or	..	..	..	..	152
German .....	Ger. 41	2	..	2	..	152
Mathematics .....	Math. 32	3	..	*	..	145
Physical Education .....	Phys. Ed. 1	..	3	..	3	172

\*Botany 2 and Mathematics 32 continue to the end of January.

### JUNIOR COURSES—SECOND YEAR

SUBJECT	Course No.	First Lect.	Half Lab.	Sec. Lect.	Half Lab.	Pge.
Gross Anatomy .....	Anat. 4	2	12	..	..	102
Gross Anatomy .....	Anat. 2 & 5	..	..	2	10	102
Histology .....	Anat. 10	3	4	..	..	102
Splanchnology .....	Anat. 12	..	..	2	4	102
Embryology (Human) ..	Anat. 14	..	..	1	3	102
Embryology .....	Zoology 3	2	3	..	..	172
Organic Chemistry .....	Chem. 3	3	..	3	3	112
Bacteriology .....	Bact. 1	1	..	1	..	109
Materia Medica .....	Mat. Med. 3	1	..	1	..	144
Physical Education .....	Phys. Ed. 2	..	3	..	3	172

### SENIOR COURSES—THIRD YEAR

SUBJECT	Course No.	First Lect.	Half Lab.	Sec. Lect.	Half Lab.	Pge.
Gross Anatomy .....	Anat. 53&54	2	10	2	6	102
Neurology .....	Anat. 60	..	..	2	4	102
Bacteriology .....	Bact. 51	1	2	1	2	109
Biochemistry .....	Biochem. 1	3	3	3	3	110
Pharmacy .....	Pharm. 3	..	..	1	..	157
Physiology .....	Physiol. 1	3	3	3	3	166
Psychology .....	Psychol. 53	3	..	3	..	158

\*Six laboratory periods of two hours each in Pharmacy 3 to be arranged on Thursday afternoon, sec. half.



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## SENIOR COURSES—FOURTH YEAR

SUBJECT	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
Medicine .....	Clin.Med. 51	1	9	1	9	120
Surgery .....	Clin. Surg.51	1	7	1	7	171
Physiology .....	Physio. 51	3	3	3	3	166
Biochemistry .....	Biochem. 51	1	3	1	3	110
Pharmacology .....	Pharmacol.51	2	3	2	3	166
Pathology .....	Path. 51	4	..	1	4	157
Clinical Laboratory .....	Clin. Lab. 52	..	4	..	..	.....

## THE DEGREE OF DOCTOR OF DENTAL SURGERY

The course leading to the degree is arranged on the basis of a five year curriculum of which the work of the first three years is offered. A second year of a four year course is also offered for the session 1922-23. Arrangements have been made whereby undergraduates may finish their course at the Royal College of Dental Surgeons of Ontario or at McGill University.

## JUNIOR COURSES—FIRST YEAR

(Five Year Course)

SUBJECT	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
Botany .....	Bot. 2	3	2	3	2	110
Zoology .....	Zoology 2	3	3	3	3	172
Chemistry .....	Chem. 2	3	6	3	6	112
Physics .....	Phys. 11	3	2	3	2	164
French or .....	French 45	2	..	2	..	152
German .....	Ger. 41	2	..	2	..	152
Mathematics .....	Math. 32	3	..	..	..	145
English .....	Eng. 1	3	..	3	..	128
Physical Education .....	Phys. Ed. 1	..	3	..	3	172

## DENTISTRY

### JUNIOR COURSES—SECOND YEAR (Five Year Course)

SUBJECT	Course No.	First Lect.	Half Lab.	Sec. Lect.	Half Lab.	Pge.
Anatomy .....	Anat. 7	1	2	..	..	102
Anatomy .....	Anat. 6	1	5	2	2	102
Anatomy .....	Anat. 21	..	..	1	6	102
Histology .....	Anat. 11	3	4	..	..	102
Chemistry .....	Chem. 3	3	..	3	3	112
Physiology .....	Physiol. 1	3	3	3	3	164
Prosthetic Dentistry .....	Dent. 1	1	5	1	5	124
Physical Education .....	Phys. Ed. 2	..	3	..	3	172

### JUNIOR COURSES—SECOND YEAR (Four Year Course)

SUBJECT	Course No.	Lect. First	Lab. Half	Lect. Sec.	Lab. Half	Pge.
Anatomy .....	Anat. 21	..	..	1	4	102
Anatomy .....	Anat. 23	1	2	2	4	102
Histology .....	Anat. 11	3	4	..	..	102
Dental Splanchnology .....	Anat. 13	1	3	..	..	102
Materia Medica & Pharmacology .....	Mat. Med 4	1	3	1	3	144
Physiology .....	Physiol. 1	3	3	3	3	166
Organic Chemistry .....	Chem. 3	3	..	3	..	112
Prosthetic Dentistry .....	Dent. 3	2	4	2	4	124
Operative Dentistry .....	Dent. 2	1	2	1	5	124
Physical Education .....	Phys. Ed. 2	..	3	..	3	172

The subjects of the third year of the five-year course will be issued when the details are completed.

### THE COMBINED COURSE LEADING TO THE DEGREES OF B.A. AND M.D.

- First Year:**
1. English 1.
  2. History 1.
  3. Mathematics 1.
  4. Physics 11.
  5. and 6. French, \*German, Latin, Greek:  
two to be taken of which one must be  
a modern language.
  7. Physical Education 1.



## UNIVERSITY OF ALBERTA

- Second Year:**
1. An option in Group A.
  2. An option in Group B. (Phil. 1 or 2 recommended).
  3. Zoology 1.
  4. Chemistry 1.
  5. Biology 1.
  6. Physical Education 2.

- Third Year:**
1. Chemistry 51 or 58.
  2. Chemistry 52.
  3. and 4. Two senior courses from Group A or B, or one senior course from Group A and one from Group B.

**Fourth Year:** The subjects of Second Year Medicine.

The subjects of years V, VI, VII, and VIII, are identical with those of years III, IV, V, and VI, in Medicine.

The B.A. degree may be granted at the end of the fourth year.

\*Students in the combined course in Arts and Medicine, who have not matriculated in German, are required to include German A in their work of the first year.

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## FACULTY OF LAW

The Faculty of Law has been reorganized at the University of Alberta and is now in operation under the new scheme by which the work of the first two years of Law will be given to students in attendance at the University. This is the commencement of the new plan in accordance with the enactment of the 1921 session of the Provincial Legislature, which reads as follows:

"The Benchers shall also enroll as a member of the Society with the titles of barrister and solicitor any person who is a British subject and has shown himself to be of good character and reputation and—

## DEGREE OF LL.B.

- (1) Has pursued a course at the University of Alberta for at least three years leading to a degree in Law and has received such degree and has complied with the rules and regulations of the Law Society as to service under articles for a continuous period of one year: or
- (2) Has received from the University of Alberta the degree of Bachelor of Arts and has pursued a course at the said university leading to a degree in Law and has received such degree and has served under articles in compliance with these rules and regulations of the Law Society for a term of one year in continuous periods of not less than four months each;
- (3) And in either case has paid the fees provided by the Law Society for enrolment."

The new plan requires the attendance of the student for three years at the University to obtain the degree of LL.B. To obtain the degrees of B.A., LL.B. a student will be required to attend the University for six years, receiving the degree of B.A. on the completion of the first four years' work. The terms of articles will be required as explained above.

Arrangements have been made to enable those who have previously registered to complete their course under the old requirements. As only the first two years are being offered during 1922-23 under the new scheme, it will be necessary for all students who have completed their first two years to continue under the previous arrangement, while all first and second year students will be in attendance at the University.

## THE DEGREE OF LL.B.

The following courses are required of all students taking the degree of Bachelor of Laws. In addition to the study of prescribed texts particular attention will be paid to the provisions of the Statute Law relating to each subject. The Statutes to be covered will be designated by the instructor in charge of each course. Cases other than those found in the prescribed text may be assigned by the instructor in charge of any course.

### FIRST YEAR

#### 1. **Contracts.**

3 hrs.

*Kenny's Edition of Finch's Cases on Contracts.*



## UNIVERSITY OF ALBERTA

2. **Torts 1.** 3 hrs.  
Redcliffe & Miles: *Cases Illustrating the Principles of the Law Torts*; Smith: *Select Cases in Civil Liability*.
3. **Property 1.** Real 2 hrs., Personal 1 hr.  
Williams: *Real Property; Selected Cases & Statutes*.
4. **Criminal Law.** 2 hrs.  
*Criminal Law; Criminal Code of Canada* (omitting sections relating to procedure).  
Beale: *Cases on Criminal Law* (3rd ed.); Kenny: *Cases on*
5. **Legal History 1.** 1 hr.  
General Introductory Course.  
Maitland: *Constitutional History of England*; Holdsworth: *History of English Law*. Vol. 1.
6. **History 3.** 3 hrs.
7. **Physical Education 1.** 3 hrs.

Summer reading will be assigned in April of each year as a supplement to the foregoing courses. Students entering upon their second year will be required to pass an examination upon such assigned reading at the commencement of their second year.

All students are required to take part in such moot cases as may be assigned to them by the Faculty during the year.

### SECOND YEAR

- \*1. **Evidence 1.** 2 hrs.  
Thayer's *Cases and Assigned Statutes*.
- \*2. **Canadian Constitutional Law.** 3 hrs.  
Selected Cases and Statutes.
- \*3. **Partnership and Agency.** 1 hr.  
Wambaugh's *Cases on Agency Partnership Ordinance*; Selected Cases and Statutes.
- \*4. **Sales.** 1 hr.  
Williston's *Cases on Sales*; Sales of Goods Ordinance; Selected Cases.
- \*5. **Constitutional History 57.** 3 hrs.  
(Not given 1922-23.)

## DEGREE OF LL.B.

- |    |                                 |        |
|----|---------------------------------|--------|
| 6. | <b>Criminal Procedure.</b>      | 1 hr.  |
|    | (Course to be announced later). |        |
| 7. | <b>Practice 1.</b>              | 1 hr.  |
| 8. | <b>Real Property 2.</b>         | 1 hr.  |
| 9. | <b>Equity 1.</b>                | 2 hrs. |

Summer reading will be assigned in April of each year as a supplement to the foregoing courses. Students entering upon their third year will be required to pass an examination upon such assigned reading at the commencement of their third year.

All second year students are required to argue such moot cases as may be assigned to them by the Faculty during the year.

### THIRD YEAR

- |     |  |        |
|-----|--|--------|
| *1. | <b>Company and Municipal Law.</b>  | 2 hrs. |
|     | (Not given 1922-23.)   |        |
| *2. | <b>Bills and Notes.</b>  | 1 hr.  |
|     | Ames' <i>Cases on Bills and Notes</i> ; Russell on <i>Bills</i> (2nd ed.); Bills of Exchange Act.  |        |
| *3. | <b>Jurisprudence and Comparative Law.</b>  | 3 hrs. |
|     | This course is divided into two parts. The first part will be devoted to an analysis of fundamental legal concepts. The second part is an introduction to the study of Comparative Law. The principles and historical development of the Civil Law and of some modern codes derived therefrom will be briefly studied.<br>Holland: <i>Jurisprudence</i> ; Pound: <i>Readings on Roman Law</i> (2nd Ed.); Girard: <i>Manuel Élémentaire de Droit Romain</i> . |        |
| *4. | <b>Legal History 2.</b>  | 2 hrs. |
|     | (Not given 1922-23.)   |        |
| *5. | <b>Private International Law.</b>  | 1 hr.  |
|     | (Not given 1922-23.)   |        |
| 6.  | <b>Practice 2.</b>   | 1 hr.  |
|     | (Not given 1922-23.)   |        |
| 7.  | <b>Real Property.</b>  | 1 hr.  |
|     | (Not given 1922-23.)   |        |



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|-----|---|-------|
| 8.  | <b>Equity 2.</b><br>(Not given 1922-23.)  | 1 hr. |
| 9.  | <b>Evidence 2.</b><br>(Not given 1922-23.)  | 1 hr. |
| 10. | <b>Professional Etiquette.</b><br>Office Management, etc. (Not given 1922-23.)      | 1 hr. |
| 11. | <b>Select Topics in the Law of Torts.</b><br>(Not given 1922-23.)                   | 1 hr. |
| 12. | <b>Informal Discussion of Recent Cases and Legislation.</b><br>(Not given 1922-23.) | 1 hr. |

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\*For economy in lecture work the Faculty may alternate courses of the second year, marked \* with courses of third year marked \*, the two years taking the lectures together in the courses so alternated.

## DEGREE WITH DISTINCTION

Students who have given evidence of a high standard of scholarship during their first year of law work may be permitted, with the approval of the Faculty, to take any two of the following subjects in addition to the work ordinarily required in the second and third years in law:

- (a) Legal Psychology;
- (b) Corporation Finance (P. E. 69);
- (c) Political Science (P. E. 63);
- (d) Public International Law;
- (e) Roman Law.

If the work of such students in the two extra subjects so taken and in the work of the second and third years in Law indicates a high standard of scholarship, such students may, with the approval of the Faculty, be granted the degree of Bachelor of Laws with Distinction.

## ANIMAL HUSBANDRY

- 3. Breed Studies of Sheep and Swine.** 4 hrs. lab., first half.  
Judging types and representatives of different breeds according to their official standards; study of the origin, history, characteristics, and adaptability of the breeds.
- 4. Breed Studies of Beef Cattle, Dairy Cattle and Horses.** 4 hrs. lab., sec. half.  
Judging types and representatives of different breeds according to their official standards; study of the origin, history, characteristics, and adaptability of the breeds.
- 10. Feeding and Management of Live Stock.** 2 hrs. lect., 2 hrs. lab.  
Similar to course 51. For those taking the Three Year Course.  
Text-book: *Feed and Feeding*, Henry and Morrison.
- 51. Feeding and Management of Livestock.** 2 hrs. lect., 2 hrs. lab.  
Feed stuffs and animal feeding. The practical feeding and management of sheep, swine, beef cattle, dairy cattle and horses. Fitting livestock for show or sale, use of rope on the farm, and the fitting and care of harness.  
Text-book: *Feeds and Feeding*, Henry and Morrison.
- 52. Live Stock Production.** 2 hrs. lect.  
Problems in the production of pork, mutton and wool, beef, milk and the feeding and marketing of horses. Review of the results of the leading Experiment Stations and successful stockman, particularly as applied to conditions in Western Canada. Economical rations, successful methods of housing and considerations in marketing.  
Text-book: *Feeds and Feeding*, Henry and Morrison.
- 53. Animal Breeding.** 2 hrs. lect., first half.  
Application of the principles of genetics to the improvement of domesticated live stock, related phases of reproduction bearing on the breeding industry and approved methods of practice.  
Text-book: *Genetics in Relation to Agriculture*, Babcock and Clausen.



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54. **Herd-Book Study.** 2 hrs. lect., 2 hrs. lab., sec. half.  
Lectures on pedigrees, blood lines, families and tribes, in the various breeds of live stock; laboratory in working out pedigrees from the herd books.
55. **Advanced Judging.** 2 hrs. lab., first half.  
Advanced work in judging feeder types, market types, and breed types of live stock. Classifying, grading and valuing sheep, swine, beef cattle, dairy cattle and horses from the standpoint of the open market.
57. **Live Stock Problems and Investigations.** 2 hrs. lab. sec. half.  
Advanced work in some special phase of Animal Husbandry. The subject is chosen by the student, approved by the head of the department, and worked out in consultation with an instructor.

## DEPARTMENT OF ARCHITECTURE

Professor Burgess.

### Junior Courses.

2. **Architectural Drawing.** 3 hrs lab.  
Applied to historical examples.  
Text-book: Pierre Esquié, *Cinq Ordres d'Architecture*.
3. **Architectural Design.** 6 hrs first half, 9 hrs sec. half.  
The application of traditional forms to simple problems; subjects involving the use of the Classical Orders and of typical methods of construction.
4. **History of Architecture.** 2 hrs.  
Ancient architecture. General review of Egyptian and Assyrian architecture and detailed study of Greek, Roman and Byzantine architecture.  
Text-book: Anderson & Spiers, *Greek and Roman Architecture*.
5. **Building Construction.** 6 hrs lab.  
Methods of employing, assembling, and framing materials in accordance with their various characteristics

## ARCHITECTURE

and the purposes for which each is suited. The principal elements of modern building work, such as, walls, floors, roofs, doors, windows, etc., treated from the point of view of practicable and customary construction. Standard methods of construction.

Text-book: Mitchell's *Building Construction, Junior Course*.

**6. Decorative Arts. 4 hrs lab.**

Study of decorative principles as applied to the various materials employed in building.

### Senior Courses.

**51. Architectural Drawing. 3 hrs lab.**

Rendering in line and wash; development in light and shade; perspective drawing.

**52. Architectural Design. 1 hr lect., 9 hrs lab.**

Problems in planning and in the composition of elevations.

**53. Architectural Design. 1 hr lect., 15 hrs lab.**

Planning and grouping of buildings and surroundings.

**54. History of Architecture. 2 hrs.**

Mediaeval architecture. Romanesque and Gothic architecture throughout Europe. The Perpendicular and Tudor styles in England. Study of the principles of stone construction in arches and vaults.

Text-book: G. H. West, *Gothic Architecture in England and France*.

**55. History of Architecture. 2 hrs.**

Renaissance and modern. The effects of the Renaissance movement as illustrated by architecture. The various characters exhibited by Renaissance architecture throughout Europe at various periods. The relation of modern architecture to past styles.

Text-books: W. J. Anderson, *Renaissance Architecture in Italy*; W. H. Ward, *Renaissance Architecture in France*; R. Bloomfield, *English Renaissance Architecture*.

**56. Decorative Arts. 3 hrs lab.**

Decoration as employed in minor materials used in architecture, metal, plaster, terra cotta, etc.



## UNIVERSITY OF ALBERTA

57. **Decorative Arts.** 1 hr lect., 3 hrs lab.  
An advanced course in decorative design.
58. **Specifications.** 1 hr first half.  
The preparation of detailed description of architectural works with a view to entering upon and carrying out contracts.
60. **Ventilation and Heating.** 1 hr first half.  
The scientific bases on which the circulation and warming of air in buildings must be provided for. The principle means taken to meet these requirements.  
Text-book: R. G. Carpenter, *Heating and Ventilating Buildings*.
61. **Building Construction.** 6 hrs lab.  
Advanced stage of Building Construction Architecture 5, including the more essentially modern methods of construction: re-inforced concrete, etc.  
Text-book: Mitchell's *Building Construction, Advanced Course*.
62. **Architecture.**  
Optional course for students in 3rd and 4th year of Arts course.  
The purpose of this course is to provide a basis for the intelligent appreciation of Architectural design as illustrated in historical monuments and in present day experience.  
Text-book: A. D. F. Hamlin, *History of Architecture*.

## DEPARTMENT OF BACTERIOLOGY AND HYGIENE

Professor Rankin, Dr. Ower, Dr. Laidlaw, Dr. Orr, and Dr. Harris.

### Bacteriology.

#### Junior Courses.

1. **Elementary Bacteriology.**  
1 hr. lect., 3 hrs. lab. first half.  
Demonstrations in elementary bacteriology. Practical laboratory exercises, i.e., making of media, staining, etc.  
Text-book: Jordan, *General Bacteriology*.

## BACTERIOLOGY

### 2. Agricultural Bacteriology.

1 hr lect., 3 hrs lab. first half.

Demonstrations and lectures, elementary in character. Practical laboratory exercises in elementary bacteriology.

Text-book: Marshall, *Microbiology*.

### Senior Courses.

#### 51. Pathogenic Bacteriology.

1 hr lect., 2 hrs lab.

The relation of bacteria and the higher parasites to disease. Cultivation of pathogenic microorganisms; isolation and identification of bacteria pathogenic to man, etc.

Text-book: Jordan, *General Bacteriology*.

#### 52. Agricultural Bacteriology.

1 hr lect., 3 hrs lab. sec. half.

Plant diseases; study of specific microorganisms; soil bacteriology; dairy bacteriology.

Text-book: Marshall, *Microbiology*.

#### 61. Elementary Bacteriology.

1 hr. lect., 3 hrs. lab. first half.

Demonstrations in elementary bacteriology. Practical laboratory exercises, i.e., making of media, staining, etc.

Text-book: Jordan, *General Bacteriology*.

## Hygiene

### Senior Courses.

#### 51. Elementary Hygiene.

1 hr first half.

The principles of sanitary science.

#### 52. Hygiene and Sanitation.

1 hr sec. half.

Points to be observed in design and construction of buildings to secure the best conditions of health. For Architectural students.

Text-book: Jordan, *General Bacteriology*.



UNIVERSITY OF ALBERTA

DEPARTMENT OF BIOCHEMISTRY

Professor Collip, and Mr. ....

**Junior Course.** 3 hrs. lect., 3 hrs. lab.

1. Physical and chemical principles forming basis for general physiology; chemistry of food and proximate physiological compounds; enzyme action; digestion; metabolism; diet; nutrition; calorimetry; chemistry of physiological fluids, blood, urine, sweat, milk.

**Senior Courses.**

51. **Pathological Chemistry.** 1 hr. lect., 3 hrs. lab.  
Detailed study of the chemistry of body fluids and tissues in health and disease; hydrogen ion and its significance; acidosis; alkalosis.
61. **Biochemistry.** 3 hrs. lect., 3 hrs. lab.  
Same subject matter as Biochemistry 1. A senior subject open to students in Arts, Household Economics, and the degree course in Pharmacy.

DEPARTMENT OF BOTANY

Professor Lewis and Mr. Moss

1. **General Elementary Botany.** 3 hrs. lect., 3 hrs. lab.  
Morphology, physiology of the cell; elements of vegetable morphology, anatomy and physiology, Mendelism, genetics.  
Prerequisites: Physics 1, Chemistry 1.
2. **General Elementary Botany (Medicine and Dentistry).**  
3 hrs lect., 3 hrs lab. first half.
3. **General Elementary Botany (Agriculture and Pharmacy).** 2 hrs lect., 3 hrs lab.  
Elements of vegetable morphology, anatomy and physiology, classification of flowering plants.
4. **Agricultural Botany (2nd year Agriculture).**  
1 hr lect., 2 hrs lab. sec. half.  
General vegetable physiology, diseases of plants, Mendelism and genetics.  
Prerequisite: Botany 3.

## BOTANY

### Senior Courses.

51. Anatomy and morphology of the principal groups of plants, palaeobotany; general principles of classification, genetics, evolution.  
Prerequisites: Chemistry 51, Geology Elementary.
52. The factors affecting plant growth and distribution; plant formations and associations, representative plant associations of the north temperate belt and arctic regions and their relation to soil and climate.  
Prerequisites: Chemistry 52, Geology 52.

### Honours Courses.

101. **Palaeobotany.** 3 hrs lect., 6 hrs lab.  
Evolution of modern groups of plants as illustrated by the structure of fossil types from various geological horizons, plant remains in peat, lignite, and coal.  
Prerequisites: Botany 1, Botany 51 and 52, Geology 51 and 52.
102. **Comparative Anatomy and Ecology.** 3 hrs lect., 6 hrs lab.  
Evolution of chief tissues and organs of plants treated from a comparative point of view.  
Prerequisites: Botany 1, Botany 51 and 52, Chemistry 52, Bio-chemistry.
103. **Comparative Distribution of Vegetation and Ecology.** 3 hrs lect., 6 hrs lab.  
Distribution of vegetation in time and space considered from a dynamical point of view. Antecology and synecology.  
Prerequisites: Chemistry 52 and 54, Geology 52, Bio-chemistry.

### Graduate Courses.

Graduate students who have had the necessary training and wish to carry on research in some field of Botany should consult the head of the department.



UNIVERSITY OF ALBERTA

DEPARTMENT OF CHEMISTRY

Professor Lehmann, Assistant Professor Walker, Assistant Professor Bridgeman, Mr. Sandin, Mr. Stover, Mr. Good, Mr. Drake, Mr. Mair, Mr. McDonald, and Mr. Hollies.

Junior Courses.

1. **General Chemistry.** 3 hrs lect., 3 hrs lab.  
Lectures: Common non-metals and some of the metals and their compounds; fundamental laws and theories.  
Laboratory: The setting up of apparatus; titrations, and standardization of normal solutions; preparation and separation of a few substances as an introduction to quantitative analysis, and to illustrate some of the laws of chemistry; an introduction to qualitative analysis.  
Text-books: Smith, *Chemistry for Colleges* (The Century Company) or McPherson and Henderson, *A Course in General Chemistry* (Ginn); Kenrick and DeLury (Macmillan); W. A. Noyes, *Qualitative Analysis* (Henry Holt).
2. **General Chemistry.** 3 hrs lect., 6 hrs lab.  
Lectures similar to Chemistry 1.  
Laboratory: The quantitative determination of nitro-  
gent, sugar, and a number of acids and bases, together with the laboratory work of Chemistry 1. For students in Medicine, Pharmacy, and Dentistry.  
Text-books as in Chemistry 1.
3. **Organic Chemistry.** 3 hrs. lectures throughout the year.  
3 hrs. lab. second half.  
Lectures: An introduction to both the paraffin and the benzene series.  
Laboratory: The preparation of some organic substances. For students in Medicine, Pharmacy, and Dentistry.  
Text-books: Remsen, *Organic Chemistry* (Heath and Company); Garrett and Harden, *Practical Organic Chemistry* (Longmans).

## CHEMISTRY

### 4. Organic Chemistry.

3 hrs. lect., second half; 3 hrs. lab. first half.

Lectures: A brief general outline of both the Paraffin and Benzene series, with a somewhat fuller treatment of some of the groups of substances of special interest to students of agriculture, such as the fats and the carbo-hydrates.

Laboratory: Quantitative chemical analysis of some inorganic acids and bases.

For students in Agriculture.

Text-books: Remsen, *Organic Chemistry* (Heath and Company); Lincoln and Walton.

### Senior Courses.

#### 51. Inorganic Chemistry.

3 hrs lect., 3 hrs lab.

Lectures: Continuation of Chemistry 1 with special emphasis on metals; introduction to Physical Chemistry.

Laboratory: Qualitative analysis of inorganic bases and acids.

Text-books: Mellor, *Modern Inorganic Chemistry* (Longmans), or Holleman, *Inorganic Chemistry* (Chapman and Hall or Wiley); Jones, *Introduction to Physical Chemistry* (Macmillan); W. A. Noyes, *Qualitative Analysis*.

#### 52. Organic Chemistry.

3 hrs lect., 3 hrs lab.

Lectures: Similar to those of Chemistry 3.

Laboratory: Preparation of organic substances.

Text-books: Remsen, *Organic Chemistry* (Heath and Company); Garrett and Harden, *Practical Organic Chemistry* (Longmans).

#### 53. Agricultural Chemistry.

3 hrs lect., 3 hrs lab.

Lectures: A general course including soils and fertilizers, fodders and feeding.

Laboratory: Quantitative determination of some acids and bases; simple methods of fodder analysis. For students in Arts and Sciences.

#### 54. Physical Chemistry.

3 hrs lect., 3 hrs lab.

Lectures: Stoichiometry; atomic theory; periodic system; gas laws; properties of liquids and solids; solu-



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tions; chemical dynamics and equilibrium; thermochemistry; electro-chemistry.

Laboratory: Molecular weights; calorimetric determinations; conductivity; concentration cells, etc., to illustrate the lecture course.

Text-books: James Walker, *Introduction to Physical Chemistry*, (Macmillan); Roth, *Exercises in Physical Chemistry* (Constable).

**56. Analytical Chemistry.** 6 hrs lab.

Laboratory: The quantitative determination of some inorganic acids and bases. Followed by the analysis of selected samples of ores, minerals and clays.

For students in Mining Engineering.

Text-books: Scott, *Standard Methods of Chemical Analysis* (Von Nostrand).

**57. Agricultural Chemistry.** 3 hrs lect., 3 hrs lab.

Lectures: Digestibility, assimilation, and function of nutrients; composition of fodders and expression of their nutritive value.

Laboratory: Analysis of fodders.

For students in Agriculture.

Text-books: Kellner, *Scientific Feeding of Animals* (Macmillan); Lincoln and Walton, *Elementary Quantitative Analysis* (Macmillan).

**58. Analytical Chemistry.** 3 hrs lect., 3 hrs lab.

Lectures: Continuation of Chemistry 1; principles and methods of quantitative chemical analysis; gravimetric, volumetric, colorimetric; standardization of apparatus; sampling.

Laboratory: Work illustrating the lectures.

Text-books: Ostwald, *Foundations of Analytical Chemistry* (Macmillan); Foulk, *Notes on Quantitative Chemical Analysis* (McGraw-Hill); Treadwell & Hall, *Vol. 2, Quantitative Analysis* (Wiley & Sons).

**59. Chemistry of Foods.** Lab. 6 hrs.

For students in Household Economics.

## CHEMISTRY

### Honours Courses.

- 101. Organic Chemistry.** 3 hrs lect., 6 hrs lab.  
Lectures: Paraffin series, including unsaturated compounds; polymethylenes and purine derivatives; reading of assigned subjects.  
Laboratory: Organic preparations.  
Text-books: Holleman, *Organic Chemistry* (Chapman and Hall or John Wiley); Garrett and Harden, *Practical Organic Chemistry* (Longmans).
- 102. Organic Chemistry.** 3 hrs. lect., 6 hrs. lab.  
Lectures: The benzene series; naphthenes; terpenes; hetero-cyclic and conjugated cyclic compounds; history of chemistry; reading of assigned subjects.  
Laboratory: Organic chemical analysis; molecular weight determinations; determination of the constitution of organic compounds.  
Text-books: Holleman, *Organic Chemistry* (Chapman and Hall or Wiley).
- 103. Physical Chemistry.** 3 hrs. lect., 6 hrs. lab.  
Lectures: Covering the same topics as in Chemistry 54, but with more advanced treatment, and with greater emphasis on mathematical relations.  
Laboratory: Practical measurements to illustrate the lecture course.  
Text-books: Roth, *Exercises in Physical Chemistry* (Constable).
- 104. Physical Chemistry.** 3 hrs lect., 6 hrs lab.  
Lectures: Chemistry of colloids; classification; preparation; properties; precipitations; suspensoids and emulsoids; surface phenomena; applications; advanced electro-chemistry; electro-chemical theory; ionic migration; conductivity; dilution law; Nernst theory; E.M.F. and calculations; concentration cells; special types of cells; single potential; electrolysis; theory of storage battery.  
Laboratory: Practical experiments; preparations; and measurements to illustrate the lecture course.  
Text-books: Leffeldt, *Electro-Chemistry*, Pt. 1 (Longmans); Hatschek, *Introduction to the Physics and Chemistry of Colloids*, or Taylor, *Chemistry of Colloids*.



UNIVERSITY OF ALBERTA

DEPARTMENT OF CIVIL AND MUNICIPAL  
ENGINEERING

Professor Wilson, Professor Robb, Associate Professor  
Morrison, and Mr. Fife.

**Junior Courses.**

1. **Applied Mechanics.** 3 hrs lect. sec. half.  
Composition and resolution of forces; bending moments; shears and reactions; funicular polygon; stresses in simple framed structures; centre of gravity; moments of inertia; applications of funicular polygon to arches and hanging chains.  
Prerequisite: Math. 21, 22.  
Concurrent courses: Math. 25, 26.
2. **Mapping.** 3 hrs lab. first half.  
Topographical and conventional signs; contour maps and problems; plotting from notes; mine survey notes; problems on areas by latitudes and departures, division into triangles and planimeter; construction of small scale maps by polyconic or simple conic projection.
3. **Materials of Construction.** 2 hrs lect.  
General characteristics, manufacture and use of woods, metals and their ores, cast iron and malleable cast iron, wrought iron, steels, (corrosion of iron and steel), other metals and alloys, limes and plasters, cements, mortars, concrete, clay products, glass, building stones, masonry construction, oils and paints, asphalts, bitumens, etc., explosives.  
Text-book: Johnson, *Materials of Construction* (Wiley).
6. **Survey School.** 4 weeks at end of sec. half.  
Fieldwork, including chaining, rodding, levelling, transit work, plane table survey; plotting of field notes. Daily lectures on surveying methods; construction, adjustments and use of instruments; topography; contour surveying; mine surveying; descriptions for deeds; railway alignment problems; land system of the Dominion; photographic surveying.  
Text-Book: Breed and Hosmer, *Surveying*, Vols. I and II (Wiley).  
Prerequisite: Grade XII Trigonometry.

## CIVIL ENGINEERING

- 7. Survey School.** 4 weeks at end of sec. half.  
Field work including adjustment of instruments; railway preliminary and location surveys; cross-sectioning; staking out buildings; determinations of azimuth, longitude, latitude and time by solar and stellar observations; base line measurements; angular measurements. Daily lectures on practical astronomy and geodesy including problems and methods of observing for latitude, time, longitude, and azimuth sufficient to meet the needs of the practical surveyor.  
Text-book: Hosmer, *Astronomy* (Wiley).  
Prerequisite: Math. 21.

### Senior Courses.

- 52. Foundations.** 1 hr. lect.  
Classification, examination and bearing power of soils; design of foundations; pile foundations; spread footings; coffer-dams; pneumatic caissons.  
Text-book: Jacoby and Davis, *Foundations for Bridges and Buildings* (McGraw-Hill).  
Prerequisite: C. E. 67.
- 53. Theory of Structures.** 3 hrs lect.  
Influence lines and maximum stresses under static and moving loads for beams, girders and trusses; lateral and portal bracing; viaduct towers and spaced frames; deflection and camber; method of least work; masonry structures; arches; suspension bridges..  
Text-book: Spofford, *Theory of Structures*, (McGraw-Hill).
- 55. Hydraulics.** 3 hrs lect., 3 hrs lab. sec half.  
Fundamental principles considered and applied to problems on discharge from orifices, notches, weirs, pipes and open channels; theory of impact of jets, turbines, pumps, hydraulic transmission of power; accumulators and lifts; discussion of hydrology; stream measurements and waterpower development. Laboratory work illustrates principles and includes measurements of discharge from orifices and notches, tests of hydraulic ram, Pelton wheel, reaction turbine and centrifugal pump.  
Text-book: Gibson, *Hydraulics and Its Application* (Constable).  
Prerequisite: Math. 25, 26.



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- 57. Applied Thermodynamics.** 2 hrs lect. first half.  
2 hrs lect., 3 hrs lab. sec. half.

Fuel and combustion: steam boilers, engines, turbines and auxiliary machinery; the gas producer; internal combustion engine; compressed air; refrigeration.

Text-book: Ripper, *Steam Engine Theory and Practice* (Longmans & Co.).

Reference books: Clerk, *The Gas Petrol and Oil Engine* (Longmans & Co.); Robson, *Power Gas Producers* (Arnold).

Prerequisite: Math. 25, 26.

Corequisite: C. E. 67 or 70.

- 59. Water Supply and Sewage Disposal.** 2 hrs lect., 3 hrs lab.

Water Supply: Quantity, quality, and pressure requirements; rainfall and evaporation; collection and storage works; purification works; distribution system and details; designs and estimates.

Sewage Disposal: Separate and combined systems; collection methods; pipe layout and details; purification and dilution treatments; laws and regulations affecting sewage disposal.

Text-books: Turneaure and Russell, *Public Water Supplies* (Wiley); Folwell, *Sewerage* (Wiley).

Reference: Metcalfe and Eddy, *American Sewerage Practice*, Vols. I, II, III (McGraw-Hill).

Prerequisite: C. E. 55.

- 62. Structural Design.** 1 hr lect. first half.  
1 hr lect., 3 hrs lab. sec. half.

Practical design of members in simple tension, columns and beams; rivets and rivetting; timber framing; loads on structures; roof trusses; building frame layouts; latticed columns, tension and compression members under direct stress and bending; eccentric connections. The design and detailing of a steel roof truss will be carried out in draughting room.

Text-book: Thayer, *Structural Design*, Vol. I (Van Nostrand).

Prerequisite: C. E. 67 or 71.

## CIVIL ENGINEERING

- 63. Structural Design.** 2 hrs lect., 3 hrs lab.  
History of bridge engineering; plate girders, loads, floor systems, types, design; reinforced concrete buildings and bridges; slow burning mill construction. Designs of a plate girder bridge, a reinforced concrete building and a retaining wall will be done in the draughting room.  
Prerequisite: C. E. 62, 67. Corequisite: C. E. 53.
- 66. Testing Laboratory.** 3 hrs lab.  
Standard tests of materials of construction including reinforced concrete beams and volumns.  
Prerequisite: C. E. 67.
- 67. Applied Mechanics.** 3 hrs lect., 3 hrs lab. first half.  
2 hrs lect. sec. half.  
Lectures and exercises on the strength of materials and applied dynamics. Theory is illustrated by a large number of practical problems including applications to columns, beams and girders, continuous girders, shafting, thick hollow spheres and cylinders, rotating discs, reinforced concrete, hooks, etc.  
Text-book: Morley, *Strength of Materials* (Macmillan).  
Prerequisite: Math. 25, 26, C. E. 1.
- 70. Applied Mechanics.** 2 hrs lect. first half.  
Shorter but similar to C.E. 67. Problems and applications are adapted to meet the needs of the mining engineer and include design of ropes, head-frames, etc.  
Text-book: Morley, *Strength of Materials* (Macmillan).  
Prerequisite: Math. 25, 26, C. E. 1.
- 71. Applied Mechanics.** 2 hrs lect., 3 hrs lab. first half.  
2 hrs lect. sec. half.  
Lectures and exercises to include fundamental principles of statics and applications to problems arising in building construction such as columns, beams, girders, roof trusses, etc.  
Prerequisite: Math. 21.
- 74. Land Transportation.** 3 hrs lect.  
Financing of railway and highway projects; economics of construction, operation and maintenance; construction details; methods of location; care of city streets.  
Text-book: Blanchard, *Elements of Highway Engineering* (Wiley).



## UNIVERSITY OF ALBERTA

### DEPARTMENT OF CLINICAL MEDICINE

Dr. Jamieson, Dr. Ower and Dr. Shaw

#### Senior Courses.

- 51. Clinical Medicine.** 4 hrs.  
Clinics at S. C. R. Hospital.  
Relation of Anatomy and Physiology to Clinical Medicine. Surface markings; Physical examination of patients; history taking.  
Text-books: Rawling, *Surface Markings*; Hutchinson and Rainy, *Clinical Medicine*; MacKenzie, *Symptoms and their Interpretation*.
- 52. Clinical Laboratory.** 4 hrs. sec. half.  
Routine examination, chemical and microscopic, for diagnosis; urine, sputum, stomach contents, faeces, cerebrospinal fluid, exudates, blood.  
Text-book: Todd, *Clinical Diagnosis*.

### DEPARTMENT OF CLASSICS

Professor Alexander, Associate Professor Misener, Mr. W. G. Hardy, Mr. Laycock.

#### Latin

#### Junior Courses.

- A. Matriculation Latin.** 4 hrs.  
A course designed to enable students with a deficiency in entering Latin to satisfy the matriculation requirement in that subject.  
Inglis and Pretyman, *First Book in Latin* (Macmillan); Cornelius Nepos, *Vita Themistoclis*, Ovid, *Metamorphoses* (selections).
- 1. First Year Latin Authors.** 2 hrs.  
Pliny, *Selections Illustrating Roman Life* (Keene: Macmillan); Terence, *Adelphi* (Ashmore: Macmillan). Sight Translation.
- 3. First Year Latin Prose Composition.** 1 hr.  
A study of the major principles of Latin prose syntax; *The Latin Prose Composition of Baker and Inglis* (Macmillan).

## COMBINED COURSE

### COMBINED COURSE LEADING TO THE DEGREES OF B.A. AND LL.B.

- First Year:**
1. English 1.
  2. History 1.
  3. Mathematics 1.
  4. Physics 1.
  - \*5. Legal Latin.
  6. Any one of the following:  
    French 1—3,  
    German 1—3,  
    Greek 1.
  7. Physical Education 1.
- Second Year:**
1. English 2.
  2. History 3.
  3. Political Economy 1.
  4. One course from Division C.
  5. One option.
  6. Physical Education 2.
- Third Year:**
1. History 57 or 58.
  2. Political Economy.
  3. Two Senior Courses from Divisions A and B.
  4. One option.
- Fourth Year:**
1. History 57 or 58 together with
  2. Subjects of First Year Law.
- Fifth Year:**
1. Subjects of Second Year Law.
- Sixth Year:**
1. Subjects of Third Year Law.

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\*Students entering the second year of the Combined Course in Arts and Law from Grade XII who have not Grade XII standing in Latin must take the Latin prescribed for students of the first year.



# UNIVERSITY OF ALBERTA

## FACULTY OF AGRICULTURE

In the Faculty of Agriculture courses are offered leading to the degree of B.S.A., and of B.H.Ec. For the B.S.A. degree a three-year course is offered for students who have completed the two-year course in one of the Provincial Schools of Agriculture, or who have equivalent credits from other agricultural institutions.

Students entering on the course with matriculation standing, may enter the University after a course of one year at one of the Provincial Schools of Agriculture.

Students must have had at least ten months of practical work in agriculture before the degree can be granted.

The attention of students is called to a Combined Course leading to the degrees of B.A., B.S.A., details of which are given on p. 93. Students registering for this course must have matriculation standing, and may enter the University without taking the preliminary course at one of the Schools of Agriculture.

## THE DEGREE OF B.S.A.

### JUNIOR COURSES—FIRST YEAR

SUBJECT	Course No.	First Lect.	Half Lab.	Sec. Lect.	Half Lab.	Pge.
Animal Husbandry .....	A. H. 1 & 2	..	4	..	4	104
Botany .....	Bot. 3	2	3	2	3	110
Chemistry .....	Chem. 1	3	3	3	3	128
English .....	Eng. 4	3	..	3	..	132
Field Husbandry .....	F.H. 1, 2 & 3	2	2	2	2	140
History of Agriculture	H. of A. 1	1	..	1	..	140
Mathematics .....	Math. 31	3	..	3	..	145
Physics .....	Phys. 31	3	2	3	2	164
Physical Education .....	Phys. Ed. 1	..	3	..	3	172

# DEGREE OF B.S.A.

## JUNIOR COURSES—SECOND YEAR

SUBJECT	Course No.	First Lect.	Half Lab.	Sec. Lect.	Half Lab.	Pge.
Agric. Engineering .....	A. E. 2	1	2	1	2	101
Animal Husbandry .....	A. H. 10	2	2	2	2	104
Bacteriology .....	Bact. 2	1	3	..	..	112
Chemistry .....	Chem. 4	..	3	3	..	112
Economics .....	Pol. Ec. 2	2	..	..	..	168
English .....	English 3	1	..	1	..	128
*Entomology .....	Ent. 1	1	..	1	..	.....
Field Husbandry .....	F. H. 4	2	2	2	2	132
History of Agriculture .....	H. of A. 2	1	..	1	..	132
Horticulture .....	Hort. 1	1	2	1	2	140
Soils .....	Soils 1 & 2	2	4	2	4	140
Veterinary Science .....	V. Sc. 1	1	..	1	..	170
Physical Education .....	Phys. Ed. 2	..	3	..	3	171
<b>Elective</b>						
*Animal Husbandry .....	A. H. 3 & 4	..	4	..	4	104
*Botany .....	Bot. 4	..	..	1	2	110
†*Zoology .....						

\*Any one of these to be taken, but no course will be given for less than two students.

†\*Prerequisite to A. H. 53 and may be taken with A.H. 3.

## SENIOR COURSES—THIRD YEAR

### Required

SUBJECT	Course No.	First Lect.	Half Lab.	Sec. Lect.	Half Lab.	Pge.
Agric. Engineering .....	A. E. 51	1	2	1	2	101
Dairying .....	Dairy 51	1	2	1	2	124
Economics .....	Pol. Ec. 70	..	..	2	..	128
English .....	English 54	1	..	1	..	128
History of Agriculture ..	H. of A. 51	1	..	1	..	140



# UNIVERSITY OF ALBERTA

## Agricultural Electives

Minimum requirement, 10 hours from the following, of which at least 4 hours must be lectures.

SUBJECT	Course No.	First Lect.	Half Lab.	Sec. Lect.	Half Lab.	Pge.
Agric. Engineering .....	A. E. 52	1	3	1	3	101
Animal Husbandry .....	A. H. 52	2	..	2	..	104
Animal Husbandry .....	A. H. 53	2	..	..	..	104
Animal Husbandry .....	A. H. 54	..	..	2	2	104
Animal Husbandry .....	A. H. 55	..	2	..	..	104
Animal Husbandry .....	A. H. 57	..	..	..	2	104
Dairying .....	Dairy. 52	2	..	2	..	124
Entomology .....	Ent. 51	2	4	2	4	191
Field Husbandry .....	F. H. 51	2	..	2	..	132
Field Husbandry .....	F. H. 52	..	..	1	2	132
Field Husbandry .....	F. H. 53	3	..	..	..	132
Field Husbandry .....	F. H. 54	..	2	..	2	132
Field Husbandry .....	F. H. 55	..	..	1	..	132
Horticulture .....	Hort. 51	2	2	2	2	132
Soils .....	Soils 53	2	4	..	..	140
Soils .....	Soils 54	..	..	2	3	170
Soils .....	Soils 55	..	..	2	..	170
Veterinary Science .....	V. Sc. 51	1	..	1	..	171

## SENIOR COURSES—THIRD YEAR—Continued

### Science Electives

Minimum requirement, 3 hours from the following:

SUBJECT	Course No.	Lect. First	Lab. Half	Lect. Sec.	Lab. Half	Pge.
Bacteriology .....	Bact. 52	..	..	1	3	109
Botany .....	Bot. 4	..	..	1	2	110
Chemistry .....	Chem. 57	3	3	3	3	112
Chemistry .....	Chem. 58	3	3	3	3	112
Geology .....	Geol. 51	3	3	3	3	135
Mathematics .....	Math. 62	3	..	..	..	145
Physics .....	Phys. 3	3	3	3	3	164
*Survey School .....	C. E. 6	..	..	4 weeks	..	116
Zoology .....	Zoology 1	3	3	3	3	172
Zoology .....	Zoology 3	2	3	..	..	172

\*To be taken during second year.

### Open Elective

Minimum requirement, 2 hours.

## COMBINED COURSE

### COMBINED COURSE IN ARTS AND AGRICULTURE

- First Year:**
1. English 1.
  2. History 1.
  3. Mathematics 1.
  4. Physics 1.
  5. 6. Latin, Greek, French, German: (two of these, one of which must be a modern language).
  7. Physical Education 1.
- Second Year:**
1. One course from Division A.
  2. One course from Division B.
  3. 4. Two courses from Division C. (Bot 1 and Chem. 1.).
  5. An option. (Students intending to select Mathematics or Physics in the Fourth Year should take Math 22).
  6. Physical Education 2.
- Third Year:**
1. 2. Two courses from Division A.
  3. One course from Division B.
  4. One course from Division C (Geology 51).
- or
1. One course from Division A.
  2. 3. Two courses from Division B.
  4. One course from Division C (Geology 51).
- Fourth Year:** Two courses from Divisions A and B.  
One course from Division C (Bot. 52, Chem. 52, Physics 8, or Mathematics).  
History of Agriculture 1.  
Animal Husbandry 1.  
Field Husbandry 1, 2, and 3.

The degree of B.A. may be granted on successful completion of the four years outlined above.

**Fifth Year:** As for the Second Year in Agriculture.

**Sixth Year:** As for the Third Year in Agriculture.

Note: Re Fifth and Sixth years. In case the student has taken any of these courses in a preceding year he must substitute an equivalent course.



## UNIVERSITY OF ALBERTA

### THE DEGREE OF B.H.Ec.

**For those entering from the Provincial Schools of Agriculture**  
For entrance requirements, see p. 35.

#### Junior Courses.

- First Year:** English 1 or 4.  
History 1.  
Mathematics 31 or 1.  
Chemistry 1.  
Physics 31 or 1.  
Household Economics 31.  
Physical Education 1.
- Second Year:** One course from Division A or B (see p. 60).  
Chemistry 1.  
Zoology.  
Bacteriology 1 (1st term).  
Bacteriology 52 (2nd term).  
Household Economics 32.  
Physical Education 2.

#### Senior Courses.

- Third Year:** One course from Division A or B (see p. 60).  
Biochemistry.  
Food Chemistry.  
Hygiene and Sanitation.  
Household Economics 56, 57, 58, 59.

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## SCHOOL OF PHARMACY

The University offers two courses in Pharmacy, one covering the requirements for registration as Licentiate of the Alberta Pharmaceutical Association, the other leading to the degree of B.Sc. The former covers two years and the latter four years of academic work.

The Licentiate course as outlined below is a minimum pre-requisite to acquiring membership in the Alberta Pharmaceutical Association. The first year of this course may be taken by matriculants at any time, but application for registration in the second year will not be accepted until at least one-half of the apprenticeship term prescribed by the Association has been completed by the candidate.

## SCHOOL OF PHARMACY

In lieu of the required apprenticeship service, candidates for registration as members of the Association who hold the B.Sc. degree in Pharmacy may offer one year's practical experience in the employ of a duly qualified pharmacist, provided that such service has been performed after the completion of the second year of the said course.

### I—THE LICENTIATE COURSE FIRST YEAR

SUBJECT	Course No.	Lect. Hours	Lab. Hours	Pge.
Botany .....	Bot. 3	2	3	110
Chemistry .....	Chem. 2	3	6	112
Chemistry .....	Chem. 3	3	3*	112
Latin .....	Lat. 36	1	..	120
Mathematics .....	Math. 36	1	..	145
Physics .....	Phys. 21	3	2	164
Physical Education .....	Phys. Ed. 1	3	..	172

\*Second half session.

### SECOND YEAR

SUBJECT	Course No.	Lect. Hours	Lab. Hours	Pge.
Materia Medica .....	M. M. 1	4	..	144
Pharmacy .....	Pharm. 1, 2 & 4	4	6	137
Physiology .....	Biochem. 1	3	3	110
(Biochemistry) .....	Toxic. 1	1*	..	171
Toxicology .....	Phys. Ed. 1	3	..	172
Physical Education .....				

\*First half session.

## II—THE B.Sc. DEGREE IN PHARMACY

For the outline of the course leading to this degree see the Faculty of Arts and Sciences, p. 71.

### DEGREES WITH DISTINCTION

#### First Class Standing

First Class Standing is awarded to those students in Applied Science and in the general course in Arts who have obtained in the required senior courses an average of eighty-five per cent. or over.



UNIVERSITY OF ALBERTA

GRADUATE AND AD EUNDEM DEGREES

The M.A. and M.Sc. Degrees

Candidates for higher degrees shall be under the supervision of the Committee on Graduate Studies.

1. A candidate for the Degree of Master of Arts or Master of Science, this degree to be sequent to the Bachelor's degree already held, must possess a Bachelor's degree from this University or be admitted *ad eundem gradum*, and before presenting himself for the higher degree must have held the Bachelor's degree for at least one academic year.

2. A candidate must proceed to the Master's degree by

- (a) **the pursuit of a prescribed course of study.** This course of study shall consist of, or be equivalent to, a full year of advanced work, and must form a cohesive whole with a definite aim. In connection with the courses prescribed a thesis will be required on a subject approved by the Committee, or
- (b) **the carrying out of an investigation.** A candidate who chooses to carry out a piece of original investigation shall submit on or before April 1st of the year in which the degree is to be taken, a formal report embodying the results of the investigation, or submit a dissertation indicative of acquaintance with the methods of research, which shall be printed or typewritten, and which shall be deposited in the University Library. During the period of the student's candidacy, no use of the material or results of the investigation shall be made without the formal sanction of the Committee on Graduate Studies. In all cases the subject of the investigation must receive the written approval of the head of the department concerned before it is submitted to the Committee on Graduate Studies as required in Section 3, and the report when completed shall be accepted only on the recommendation in writing of the department concerned. Every candidate will be required, in addition, to pass an examination, written or

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oral, on the subject within which his investigation lies. Such examination shall be conducted under the supervision of the Committee on Graduate Studies.

3. A candidate who elects to proceed to the degree by method (a) must submit the course of study which he proposes to follow to the Committee on Graduate Studies for its approval on or before the first day of November of the year in which he undertakes his work for the degree; or
- (b) must submit the subject of the investigation he proposes to carry out, to the Committee on Graduate Studies, for its approval on or before the first day of November preceding the spring in which the degree is to be taken. Candidates are strongly recommended, however, to submit their applications to the Committee at the close of the preceding session. This is especially advisable for students wishing to work in scientific departments.
4. In respect of courses taken with a view to the fulfilment of the requirements for the Master's degree, the pass mark shall be 65 per cent., and no supplemental examinations shall be permitted.

### The B.Educ. Degree

The degree of Bachelor of Education is awarded as a graduate degree under the Faculty of Arts and Sciences. The course is designed to cover two full years of graduate work, one of which must be taken in residence in this University.

### Admission

Graduates of an approved University or College, holding a Bachelor's degree, may be enrolled as candidates, subject to the approval of the Committee on Graduate Studies.

Graduates of an approved University or College who have pursued graduate studies in any recognized institution in any of the subjects indicated in the appended program of studies, may receive credit for such work, provided, however, that credits shall not be given for more than the equivalent of



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the work of one Academic Year, and that the condition requiring residence study in this University for at least one year after graduation is complied with.

In order to be recommended for the Degree of Bachelor of Education the candidate must, in accordance with the program set out below, (1) complete the program of studies; (2) submit a thesis.

- First Year:**
1. Philosophy 108.  
History of Philosophical and Scientific Thought, Advanced Course.
  2. Psychology 51.  
General and Experimental Psychology.
  3. Psychology 52.  
Social Psychology and Social Anthropology.
  4. Psychology 55.  
Educational Psychology.

- Second Year:**
1. Psychology 104.  
General and Experimental Psychology, Advanced Course.
  2. Psychology 105.  
Educational Psychology, Advanced Course.
  3. Education 51.  
History of Education. Advanced Course.
  4. Education 52.  
Philosophy of Education.
  5. Education 53.  
Modern Educational Systems and Problems.

### Thesis

(a) The subject of the thesis shall be arranged for not later than the date on which the student enrolls as a second year graduate student. Students should consult with the Head of the Department of Philosophy and with the Professor under whom they will do their special research work.

(b) The subject of the thesis shall be submitted to the Committee on Graduate Studies not later than November first of the Academic Year in which the student expects to graduate.

## DEGREE OF B.D.

### Remarks

(a) Students who have completed any four of the full session courses outlined in the program of studies above may be recommended for the Degree of Master of Arts provided that the other conditions for the awarding of this Degree have been fulfilled.

(b) Students who have completed any of the courses in the above-mentioned program of studies as parts of their undergraduate work, may, if their undergraduate standing in these subjects has been of the grade required for graduate work, be allowed to select cognate subjects, or be allotted research work in lieu of classes. Such research work would be in addition to that ordinarily to be undertaken in the preparation of the thesis.

(c) In respect of courses taken for the B.Educ. degree, the pass mark shall be 65 per cent., and no supplemental examinations shall be permitted.

### The B.D. Degree

By an arrangement with the affiliated colleges, the degree of B.D. is offered by the University to graduates in the Faculty of Arts and Sciences who follow a course of study presented by the affiliated colleges and approved by the University Senate. For information regarding this course application may be made to the Registrar. The provisions of Section 4 under "The M.A. and M.Sc. Degrees" apply also to the B.D. Degree.

### Ad Eundem Degrees

Applications for *ad eundem* degrees, accompanied by diplomas and a calendar of the institution conferring the degree, should be made to the Registrar.



## Details of Courses by Departments

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The University reserves the right to modify or withdraw for the Session any of the Courses here outlined.

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### DEPARTMENT OF ACCOUNTANCY

Mr. Race, and special sessional Lecturers for evening classes.

#### Junior Courses.

1. **Principles of Accounting.** 3 hrs.

The subject is approached from the point of view of management and control, and leads from reports, statements and balance sheets to the details of compilation. Single proprietorships, partnerships and companies, depreciations, reserves, reserve funds, standard forms and analysis of financial statements. For second year students in Commerce.

10. **Accounting.** Evening classes.  
Theory and practice for Intermediate candidates, Institute of Chartered Accountants of Alberta.

#### Senior Courses.

51. **Municipal Accounting.** 3 hrs. sec. half.  
For fourth year students in Civil Engineering.

52. **Accounting.**  
A continuation of Course 1, including special types of statements, manufacturing accounts, departmental reports, branch accounting, organization for accounting control, principles of cost accounts, municipal accounts. For third year students in Commerce.

53. **Accounting.**  
For fourth year students in Commerce. (Not offered 1922-23).

60. **Accounting.** Evening Classes.  
Advanced course for Final candidates, Institute of Chartered Accountants of Alberta.

## AGRICULTURAL ENGINEERING

### DEPARTMENT OF AGRICULTURAL ENGINEERING

Professor J. Macgregor Smith.

#### Junior Courses.

**2. Agricultural Engineering.** 1 hr lect., 2 hrs lab.

A practical study of all lines of tillage, seeding, fertilizing, harvesting and threshing machinery. Draft of plows and other implements. Belt lacing, rope work, pipe fitting, babbitting and soldering. In the laboratory an effort will be made to furnish students with all the different types of machines with which they must deal on the average Alberta farm. An opportunity will be given to study the machines with the aid of a laboratory manual. Each student will require a laboratory manual.

Text-books: *Equipment for the Farm and Farmstead*, Ram-sower; *The Tractor Field Book*.

#### Senior Courses.

**51. Agricultural Engineering.** 1 hr lect., 2 hrs lab.

A brief study of materials of construction and the strength of materials, concrete work, application of heating, ventilating, lighting, water supply and sewage disposal problems to agriculture. The planning of farm buildings and farmsteads. Each student will be allowed to choose the types of buildings he wishes to design, and also to make the farmstead layout apply to his own requirements.

Text-book: *Farm Buildings*, Foster and Carter.

**52. Agricultural Engineering.** 1 hr lect., 3 hrs lab.

A study of the sources and applications of mechanical power on the farm. The demand for labor saving machinery has turned the attention of farmers to power equipment of various kinds. The object of the course is to enable students to become familiar more especially with the fundamental principles of the internal combustion engine, namely, valve timing carburetion, lu-



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brication, ignition and sufficient practise in operation to enable them to locate and correct the most common troubles. The practical work will be along lines similar to those followed in the Farm Machinery course.

Text-books: *Gas, Gasoline and Oil Engines*, Hiscox & Page; *The Tractor Field Book*.

## DEPARTMENT OF ANATOMY

Professor Revell, Assistant Professor Shaner, Lecturer Minish, and the following Demonstrators for 1922-23: Drs.

Adamson, J. A. McPherson, Folinsbee, Greene,  
Hurlburt, Macbeth, Hepburn, Orobko,  
Hustler, Bulyea, and Strong.

### 4. Gross Anatomy of the Body-Wall and Thorax.

2 hrs lect., 12 hrs lab. first half.

This is the first course in Gross Anatomy and includes the osteology of the parts studied.

Text-books: *Text-book of Anatomy*, Cunningham, Gray (American edition by Lewis), Morris (American edition by Jackson), Piersol, or Quain; *Manual of Practical Anatomy*, Cunningham; *BNA Terminology*, Barker *BNA Regional and Systematic*, Emmel; *Dictionary*, Gould, Stedman, or Dorland; *Atlas* (for reference only) Toldt, Sobotta and McMurrich, Spalteholtz.

### 5. Gross Anatomy of the Abdomen and Pelvis.

### 2. Gross Anatomy of the Extremities.

2 hrs lect., 10 hrs lab. sec. half.

Text-books as for Anatomy 4.

### 10. Histology. 3 hrs lect., 4 hrs lab. first half.

The cell, the elementary tissues.

Text-books: *Histology*, Bailey, Jordan, Lewis, Stohr, Schaffer, or Quain (Vol. II, Pt. 1).

### 12. Splanchnology.

Preceding Anatomy 14.

The minute anatomy of the organs of the body.

Text-books as for Anatomy 10.

2 hrs lect., 10 hrs lab. sec. half.

## ANATOMY

14. **Embryology.** 3 hrs. lect., 7 hrs. lab. sec. half.

Combining with Anatomy 12.

Mammalian embryology.

Text-books: *Introduction to Vertebrate Embryology*, Reese;  
*Text-book of Embryology*, Prentiss & Arey; *Development of the Human Body*, McMurrich.

### Senior Courses.

53. **Gross Anatomy of the Head and Neck.**

1 hr. lect., 8 hrs. lab. first half.

1 hr. lect., 6 hrs. lab. sec. half.

Text-books as for Anatomy 4.

54. **Applied Anatomy.** 1 hr. lect., 2 hrs. lab.

A review of the work of the second year supplemented by the study of frozen sections, and having regard to medical and surgical application.

Text-books as for Anatomy 1; *A Manual of Surgical Anatomy*, Whittaker; and *A Cross Section Anatomy*, Eycleshymer and Shoemaker.

56. **Advanced Anatomy.** Hours to be arranged.

Open to students who have completed the required work.

60. **Neurology.** 2 hrs. lect., 4 hrs. lab. sec. half.

Gross and minute structures of the central nervous system and organs of the special senses.

Text-books as for Anatomy 4 and *Introduction to Neurology*, Herrick; *Laboratory Outline for Neurology*, Herrick and Crosby.

### For Dental Students—First Year.

6. **Odontology.** 1 hr lect., 5 hrs lab., first half.

1 hr lect., 2 hrs lab. sec. half.

Morphology of human teeth, occlusion and arrangement, deciduous teeth, comparative odontology.

Text-books: *Dental Anatomy*, Black.

7. **Osteology.** 1 hr lect., 2 hrs lab. sec. half.

Text-book: *BNA Terminology*, Barker.



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### Second Year.

11. **Histology.** 3 hrs lect., 4 hrs lab. first half.  
Similar to Anatomy 10.  
Text-books as for Anatomy 10.
13. **Splanchnology.** 1 hr lect., 3 hrs lab. sec. half.  
A shorter course than Anatomy 12, but giving more attention to oral structures.  
Text-books as for Anatomy 10.
15. **Embryology.** 1 hr lect., 3 hrs lab. sec. half.  
Combining with Anatomy 13.  
A shorter course than Anatomy 14, devoting more attention to the development of the oral structures.
21. **Gross Anatomy of the Thorax and Abdomen.** 1 hr lect., 6 hrs lab. first half.  
Text-books as for Anatomy 4.
23. **Gross Anatomy of the Head and Neck.** 1 hr lect., 2 hrs lab. first half.  
1 hr. lect., 5 hrs. lab. sec. half.  
Text-books as for Anatomy 4, and *Block Anaesthesia and Allied Subjects*, Smith.

## DEPARTMENT OF ANIMAL HUSBANDRY

Professor Dowell, and Assistant Professors Lattimer and Bowstead.

### Junior Courses.

1. **Types and Market Classes of Sheep and Swine.** 4 hrs. lab., sec. half.  
Judging; study of the carcass, live stock markets, and market classification of live stock.  
Text-book: *Types and Market Classes of Live Stock*, Vaughan.
2. **Types and Market Classes of Beef Cattle, Dairy Cattle and Horses.** 4 hrs. lab., sec. half.  
Judging; study of the carcass, live stock markets, and market classification of live stock.  
Text-book: *Types and Market Classes of Live Stock*, Vaughan.

## CLASSICS

2. **Second Year Latin Authors.** 2 hrs.  
Cicero, *Pro Milone* (Colson: Macmillan); Vergil, *Aenid VI*,  
Cotterill: Blackie.) Sight Translation.
4. **Second Year Latin Prose Composition.** 1 hr.  
Bi-weekly exercises in continuous Latin prose composition.  
*College Latin Composition* (Nutting: Allyn and Bacon.)
36. **Pharmaceutical Latin.** 1 hr.  
A course in Latin essentials as required in the School  
of Pharmacy.  
*Latin for Pharmacists* (Howe and Beard: Blakiston).

### Senior Courses.

51. **Latin Literature of the Republic, First Course.** 3 hrs.  
Cicero, *Select Letters* (Abbott: Ginn); Catullus, *Select Poems*  
(Merrill: Ginn). Sight translation; Latin prose composition.
52. **Latin Literature of the Empire, First Course.** 3 hrs.  
Tacitus, *Annals I-IV* (Furneaux: Oxford); Juvenal, *Select Satires* (Pearson and Strong: Oxford). Sight translation;  
Latin prose composition.
53. **Latin Literature of the Empire, Second Course.** 3 hrs.  
Seneca, *Epistulae Morales* (Summers: Macmillan); Martial,  
*Select Epigrams* (Bridge and Lake, Vol. 1: Oxford). Sight  
translation; Latin prose composition.
54. **Latin Literature of the Republic, Second Course.** 3 hrs.  
Cicero, *De Officiis* (Holden: Cambridge); Lucretius, *De Rerum Natura I, III, V* (Merrill: American Book Co.).  
Sight translation; Latin prose composition.
55. **Latin Literature of the Empire, Third Course.** 3 hrs.  
Tacitus, *Agricola, Germania, Dialogus*; Horace, *Satires and Epistles*. Sight translation; Latin prose composition.
56. **Latin Literature of the Empire, Fourth Course.** 3 hrs.  
Tacitus, *Histories I and II*; Lucan, *Pharsalia* (selections).  
Sight translation; Latin prose composition.



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- 57. Latin Literature of the Republic, Third Course.** 3 hrs.  
Plautus, *Aulularia*; Terence, *Hautontimoroumenos*; Cicero, *Second Philippic*. Sight translation; Latin prose composition.  
Course for third and fourth year students in 1922-23.

### Honours and Graduate Courses.

- 101. Latin Elegiac Poetry.** 2 hrs.
- 102. Latin Comedy.** 2 hrs.
- 103. Lucretius.** 2 hrs.  
The critical and exegetical study of a designated book and the careful reading of the entire poem.
- 104. Latin Literary Criticism.** 2 hrs.  
A study of the outlook and objects of Latin literary criticism as illustrated by Horace in the literary epistles and by Quintilian in the tenth book of the *Institutio Oratoria*.  
This is the course designated for 1922-23.
- 111. Advanced Latin Prose Composition.** 1 hr.  
Weekly exercises in Latin prose composition of the various styles.
- 113. Advanced Latin Sight Translation.** 1 hr.  
Weekly exercises in translating Latin prose and verse at sight.

### Greek

Attention is directed to the fact that beginning with the academic year 1920-21, Greek was made wholly a university subject. The language can therefore be begun in college and this beginning course is credited towards a degree.

### Junior Courses.

- 1. Beginning Greek.** 3 hrs.  
The fundamentals of Greek syntax; elementary Greek composition and reading.  
Benner and Smyth's *First Greek Book* (American Book Co.);  
Colson's *First Greek Reader* (Macmillan).

## CLASSICS

**2. Second Year Greek Authors. 2 hrs.**

Colson, *First Greek Reader*, pp. 105-116; Plato, *Apology* (Williamson: MacMillan); Euripedes, *Hecuba* (Bond and Walpole: Macmillan). Sight Translation.

**4. Second Year Greek Composition. 1 hr.**

Review of Greek forms. More difficult sentences for translation into Greek.

### Senior Courses.

**51. 3 hrs.**

Plato, *Protagoras* and *Phaedo*; Euripedes, *Hippolytus*. Occasional prose exercises and passages for sight translation.

### Honours and Graduate Courses.

**101.**

Homer, *Iliad VI*; Herodotus, *Bks. VIII and IX*; Sophocles, *Oedys Tyrannus*.

### Classics in English

**51. Greek Literature from Homer to the Alexandrians.**

3 hrs.

A study of the culture and influence of Greece based upon its literary documents for the period indicated in the title of the course. No knowledge of the original language is absolutely required as the literature will be taken up through translations.

Required in the Second Year of students looking forward to Honours in English or in Classics; open to all students in the third and fourth years as an option in Group A (languages and literature.)

### Ancient History

**51. General History of the Greeks and Romans. 3 hrs.**

A study of the evolution of the Greek city-state as exemplified by Athens and of the imperial idea as exemplified by the expansion of Rome.



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DEPARTMENT OF DAIRYING

Professor Marker.

Senior Courses.

51. General Dairying. 1 hr lect., 2 hrs lab.

- (1) Some aspects of the development and economic importance of the dairy industry and its organization, with special reference to Alberta conditions.
- (2) The production, composition and physical properties of milk and the commercial testing of dairy products.
- (3) Principles and practice of making butter, cheese and ice cream in the home dairy, and the marketing of dairy products.

52. Factory Dairying. 3 hrs lect.-lab.

An extension of Course 51, with special application to dairy factory operations. Instruction and laboratory practice will be given in the principles and use of various tests for composition and in the commercial grading of the quality of dairy products. Dairy legislation and phases of factory management.

Other courses will be arranged later.

DEPARTMENT OF DENTISTRY

Drs. Gilchrist and Bulyea.

Junior Courses.

1. Prosthetic Dentistry. 1 hr lect., 5 hrs lab.

A study of the muscles and bones of mastication; the mucus membrane; the teeth; impression materials; impression taking; casts; artificial teeth; dentures; articulation and antagonization; festooning, carving, tin-foiling, finishing and polishing dentures; retention of dentures; vulcanite bases; metallic bases; swaged, cast; repairing dentures.

Reference: Prothero's *Dental Prosthetics*; *American Text-Book of Prosthetic Dentistry*.

Text-book: Wilson's *Dental Prosthetics*.

## DENTISTRY

2. **Operative Dentistry.** 1 hr lect., 2 hrs lab. first half.  
1 hr lect., 5 hrs lab. sec. half.

Lectures and demonstrations on nomenclature, dental caries, use of instruments, filling materials and operative methods.

Laboratory course on cavity preparation, filling procedure, instrument making, general operative work.

Text-books: *Operative Dentistry*, Clyde Davis, Black, and Johnson.

3. **Prosthetic Dentistry.**

2 hrs. lect., 4 hrs. lab. first half.

2 hrs. lect., 4 hrs. lab. sec. half.

- (a) Examination of patients; impressions, methods, materials; trays, adjusting, individual; taking bite; occlusion and contour models; selecting teeth; face bow; anatomical articulation; principles of retention, mucosa support, mechanical supports; bases, vulcanite, celluloid, aluminium, gold, platinum, continuous gum; partial dentures.

Reference: Prothero's *Dental Prosthetics*; *American Text-Book of Prosthetic Dentistry*.

Text-book: Wilson's *Dental Prosthetics*.

- (b) History of crown work; crowns, where indicated, preparation and treatment of roots; varieties of crowns; grinding, casting, swaging, articulating; repairing crowns; causes of failure in crown work.

The laboratory course consists of making and fitting eight different varieties of crowns.

Text-book: Goslee, *Principles and Practice of Crown and Bridge Work*.

Reference: Evans, *Crown and Bridge*.

## DEPARTMENT OF DRAWING AND DESCRIPTIVE GEOMETRY

Associate Professor Adam.

1. **Architectural Drawing.** 3 hrs.  
Geometrical representation of architectural subjects, more especially the classical orders of architecture.



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2. **Elementary Mechanical Drawing.** 3 hrs lab.  
Use of instruments, projection, simple machine details, timber framing, tinting, tracing, and blue printing. Freehand sketching of machine parts. Lettering and titles.
3. **Freehand and Lettering.** 6 hrs lab.  
A course related to Architecture, comprising perspective views, drawing from casts of ornament, dimensioned sketches and lettering.
4. **Descriptive Geometry.** 1 hr lect., 3 hrs lab.  
Geometrical drawing, orthographic and metric projection, problems on lines and planes, sections and developments, conic section and other curves, curved surfaces and tangent planes, shades and shadows.
5. **Mechanical Drawing.** 3 hrs lab.  
Preparation of working drawings from dimensioned sketches; problems on motion under mechanical constraint, including graphical methods of finding velocity and acceleration, linkwork, cams, gearing.

## DEPARTMENT OF ELECTRICAL ENGINEERING

Professor Boyle and Associate Professor MacLeod.

51. (a) **Applied Electricity.** 3 hrs. lect., 6 hrs. lab.  
A brief review of the laws of electromagnetism, electric and magnetic circuits and the units used in electrical engineering. The theory and characteristics of direct current machinery and storage batteries. A short introduction to dynamo design and to the principles of alternating current machinery.
- (b) **Direct Current Laboratory.**  
The determination of the characteristics, regulation and efficiency of direct current machines;

## ELECTRICAL ENGINEERING

the use of measuring instruments, controlling and protective devices; the characteristics of storage batteries.

The laboratory reports include a comparison of the results of experiment with those determined from theory and calculation.

Required of third year students in Electrical Engineering.

- 53. Applied Electricity.** 2 hrs. lect., 3 hrs. lab. first half.  
2 hrs. lect. second half.

The laws of electromagnetism; continuous and alternating current flow in various circuits; characteristics of direct and alternating current machinery with a consideration of the class of work to which each machine is suited; the fundamental principles of electric traction, lighting and power distribution.

The laboratory course includes the determination of the characteristics and efficiency of various machines; the use of measuring instruments, controlling and protecting apparatus.

Text-book: "*Principles and Practice of Electrical Engineering*," Gray.

Required of third year students in Civil and in Mining Engineering.

- 54. Machine Design.** 2 hrs.

The principles of stresses and strength of materials as applied to particular parts of machines and machine fastenings, such as bolts, nuts, keys, cotters, and riveted joints. Required of third year students in Electrical Engineering.

Text-book: Unwin, *Machine Design, Part I* (Longmans, Green).

- 55. Mechanics of Machines.** 2 hrs. lect., 1 hr. lab.

The principles involved in the design of gears, gear trains, valves, valve gears, flywheels, governors. The theory of balancing.

References: Durley, *Kinematics of Machines*, Wiley; Ripper, *Steam Engine Theory and Practice*, Longmans & Co.



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56. **Mechanical Drawing.** 3 hrs lab. sec. half.  
Preparation of working drawings, tracings, etc., the principles discussed in the lectures of Mechanics of Machines being used to design cams, quick return motions, gear teeth, valves and valve gears. Required of third year students in Electrical Engineering.
58. **Power Distribution, Lighting, and Traction.** 2 hrs.
59. **Alternating Currents.** 3 hrs lect., 6 hrs lab.  
For fourth year Electrical Engineering students.
60. **Electrical Applications and Design.**  
2 hrs lect., 3 hrs lab.
61. **Telegraphy and Telephony.** 2 hrs lect., first half.
62. **Electro-Chemistry and Metallurgy.** 2 hrs.
63. **Machine Design.** 2 hrs first half.

## DEPARTMENT OF ENGLISH

Professor Broadus, Professor Gordon, Mr. J. M. Salter, and  
Mr. J. T. Jones.

### Junior Courses.

1. **Composition and Literature.** 3 hrs.  
Practice in composition and study of selected texts.  
*Century Handbook of Writing; Illustrative Examples of English Composition*, Linn, (Scribners).  
The following books are prescribed, in part as illustrative material for the work in composition, in part as an approach to the appreciation of certain types of literature: Shakespeare, *Romeo and Juliet* (Lake English Classics); Boswell's *Johnson*; selections, ed. Chapman (Oxford University Press); Stevenson's *Essays* (The Modern Student's Library, Scribner's); *English Short Stories* (World's Classics, Oxford Press); Thackeray, *Henry Esmond* (Lake English Classics); *A Book of Story Poems* (King's Treasures Series, Dent); *Modern Poetry* (King's Treasures Series, Dent).

## ENGLISH

2. **A General Reading Course in English Prose.** 3 hrs.  
A survey of English prose from the seventeenth century to the present day, based on selections from the following authors: Bacon, Browne, Milton, Dryden, Swift, Addison, Richardson, Fielding, Johnson, Sterne, Smollett, Burke, Scott, Coleridge, Jane Austen, Lamb, Hazlitt, Carlyle, Macaulay, Thackeray, Dickens, George Eliot, Ruskin, Arnold, Stevenson, Meredith and Hardy.  
*English Prose from Bacon to Hardy*, edited by E. K. Broadus and R. K. Gordon (Oxford Press).
3. **Composition for Students in Agriculture.** 1 hr.  
Written and oral themes on agricultural topics.
4. **Composition and Literature for Students in Agriculture.** 3 hrs.  
Practice in composition and study of selected texts.  
*Century Handbook of Writing; Illustrative Examples of English Composition*, Linn, (Scribner's).  
The following books are prescribed, in part as illustrative material for the work in composition, in part as an approach to the appreciation of certain types of literature: Shakespeare, *Romeo and Juliet* (Lake English Classics); Stevenson's *Essays* (The Modern Student's Library, Scribner's); Thackeray, *Henry Esmond* (Lake English Classics); *A Book of Story Poems* (King's Treasures Series, Dent); and *Modern Poetry* (King's Treasures Series, Dent).

### Senior Courses.

52. **A History of English Fiction.** 3 hrs.  
Lectures and class discussion.  
Students are required to read the following works: Lodge's *Rosalind*; Bunyan's *Pilgrim's Progress*; Defoe's *Robinson Crusoe*; Smollett's *Roderick Random*; Richardson's *Clarissa Harlowe*; Fielding's *Tom Jones*; Sterne's *Tristram Shandy*; Goldsmith's *Vicar of Wakefield*; Scott's *Waverley*; Jane Austen's *Pride and Prejudice*; Dickens' *David Copperfield*; Thackeray's *Vanity Fair*; Trollope's *Barchester Towers*; Charlotte Bronte's *Jane Eyre*; George Eliot's *Adam Bede*; Meredith's *The Egoist*; Hardy's *The Return of the Native*, and the selections in *The English Novel Before the Nineteenth Century*, edited by Hopkins and Hughes (Ginn); Cross, *The Development of the Novel* (Macmillan). Not given 1922-23).



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- 53. Shakespeare.** 3 hrs.  
Lectures and class discussion.  
Special study of the following plays: *Midsummer Night's Dream*, *Twelfth Night*, *The Tempest*, *Romeo and Juliet*, *Hamlet*, *King Lear*.  
Collateral reading: *King John*; *Henry IV, Part I*; *Henry IV, Part II*; *Henry V*; *The Tudor Shakespeare* (Macmillan).
- 54. Composition for Students in Agriculture.** 1 hr.  
Written and oral themes on agricultural topics.
- 55. History of Literary Criticism.** 3 hrs.  
Lectures and class discussion.  
Study of selected critical essays with special attention to the study of the following: Aristotle, Longinus, Quintilian, Sidney, Jonson, Dryden, Johnson, Wordsworth, Coleridge, Hazlitt, Shelley, Carlyle, Arnold.  
Text-books: Saintsbury, *Loci Critici* (Ginn); Dryden, *Dramatic Essays* (Dent); *English Critical Essays* (Oxford).  
Not given 1922-23.
- 57. Studies in the Poets of the Romantic Period.** 3 hrs.  
Lectures and class discussion.  
Wordsworth, Coleridge, Scott, Byron, Shelley, Keats. Editions in the *World's Classics* (Oxford).
- 58. Browning and Tennyson.** 3 hrs.  
Lectures and class discussion.  
The Globe Editions (Macmillan).
- 59. Nineteenth Century Prose.** 3 hrs.  
Lectures and class discussion.  
Study of Burke, J. S. Mill, Carlyle, Newman, Arnold, Ruskin, Huxley, as representative of English thought from the time of the French Revolution.  
J. S. Mill, *Liberty, Utilitarianism* (Everyman's Library); Burke, *Reflections on the French Revolution* (World's Classics); Carlyle, *Sartor Resartus*, edited by MacMechan (Ginn); *Heroes and Hero-Worship*, edited by MacMechan (Ginn); *Past and Present* (World's Classics); Newman, *Apologia* (Oxford); *Idea of a University* (Selections, Houghton Mifflin); Arnold, *Selections*, (Holt); Ruskin, *Selections and Essays*, (Scribner's); Huxley, *Lay Sermons* (Selections Everyman's).

## ENGLISH

- 60. Milton.** 3 hrs.  
Lectures on essential aspects of seventeenth century life and literature. Special study of *Paradise Lost*, and of selections from the prose works and minor poems.  
*Milton's Poetical Works* (Oxford); *Prose of Milton*, edited by Richard Garnett (The Scott Library).

### Honours.

#### Group A:

- 106. Studies in Elizabethan Literature.** 3 hrs.  
Special topics to be arranged in consultation with the instructor.
- 107. Studies in Early Nineteenth Century Literature.** 3 hrs.  
Special topics to be arranged in consultation with the instructor.  
The following second year programme is prerequisite for Honours in Group A: English 2, Classical Philology 1, History 2, a foreign language, an option.

#### Group B:

- 104. Old English and History of the English Language.**  
Emerson, *History of the English Language* (Macmillan); Sweet, *Anglo-Saxon Primer* (Oxford); Chambers and Wyatt, *Beowulf* (Cambridge University Press).
- 105. Middle English Literature and Chaucer.** 3 hrs.  
Emerson, *Middle English Reader* (Macmillan); Chaucer, *Works* (Oxford).  
Open only to students who have taken 104.  
The following second year programme is prerequisite for Honours in Group B; English 2, Classics in English 51, Latin or French, History 3, an option.

## DEPARTMENT OF ENTOMOLOGY

Professor Strickland.

### Junior Courses.

- 1. General Economic Entomology.** 1 hr. lect.  
Structure and Habits of insects in relation to their economic importance. Life histories and control of more important insect pests.



## UNIVERSITY OF ALBERTA

### Senior Courses.

- 51. Entomology.** 3 hrs. lect.  
Insect morphology, external and internal, characters used in classification; introduction to taxonomy; development and ecology; more important pests, methods of control, insecticides, and natural control.

## DEPARTMENT OF FIELD HUSBANDRY

Professors Cutler and Newton, and Assistant Professor Fryer.

### Junior Courses.

- 1. Crop Production.** 2 hrs lect. first half.  
In this course it is intended to give a general knowledge of the principles and practice of the science of crop production. It is intended as an introduction to the more detailed and intensive study of the various phases of the subject, which are taken later.
- 2. Climate and its Relation to Crop Production.** 2 hrs lect. sec. half.  
This course includes a study of the methods of recording climatic changes; climate in general as related to farm crop distribution; climatic factors of Alberta in particular in relation to crop production.
- 3. Seeds.** 2 hrs. lab.  
An intensive study is made of the seed, its structure and function; germination, essential conditions and process; plant growth; fertilization and development of seeds; desirable and undesirable features of seed in relation to agricultural value; identification of the common weeds with studies of their habits and growth, production and distribution.  
Text-books: *The Small Grains*, M. A. Carleton; *Agricultural Botany*, Percival; *Botany of Crop Plants*, Bobbins.
- 4. (a) Forage Roots and Potato Crops.** 1 hr lect., 2 hrs lab. first half.  
Botanical structures and relationships are systematically studied. Variety features are compared in detail. Laboratory practice is given in the identification of the wild grasses of the Province. Diseases peculiar

## FIELD HUSBANDRY

to these crops are discussed and control measures taken up. The problem of range management is given consideration. The study begins with the range plants, especially the vegetative associations of the drier areas, and includes a discussion of their preservation and succession, as affected by a well managed rotation grazing, or destructive grazing beyond the varying capacity of the range.

**(b) Cereal Crops.** 1 hr lect., 2 hrs lab. sec. half.

Botanical structures and relationships are systematically studied. Varieties are compared in detail. Agriculture uses and values of the classes and varieties are taken up. Diseases and insect pests peculiar to these crops are discussed with methods of control.

Prerequisite: F. H. 3.

Text-book: *Forage Plants and Their Culture*, C. V. Piper; *Botany of Crop Plants*, Robbins; *Fodder and Pasture Plants*, Clark and Malte.

### Senior Courses.

**51. Crop Management.** 2 hrs lect.

A detailed study of the best methods of soil preparation suitable for different crops and different soil and climatic conditions met with in the successful growing of crops and the control and eradication of weeds. Crop rotation and methods of harvesting, curing, threshing, storage, etc., of all farm crops; choice of crops in relation to climatic, soil and economic conditions. This course also includes a study of Crop Management Investigations and Experimental Results, which will be examined and appraised as the lecture work proceeds.

Prerequisite: F. H. 1 and F. H. 3.

**52. Economic Aspects of Crop Production.**

1 hr lect., 2 hrs lab. sec. half.

This course includes a careful study of world supplies and demands in relation to the Canadian grain and seed trades; details of Canadian legislation with respect to commercial grain and seed and of the methods and facilities for handling Western Canadian surpluses. Grain and seed inspection standards and methods are taken up with practice in grain and seed inspection.



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**53. (a) Plant Breeding.** 3 hrs lect. first half.

This course is designed to acquaint the student with the principles underlying the breeding of plants. It embraces a study of methods employed and results obtained by the leading plant breeders in selecting and breeding the different cereal and forage crops. It includes also a history of the early attempts at improvement and the methods of seedsmen and farmers who are maintaining and improving the purity and quality of crops.

Prerequisite: F. H. 3 and F. H. 4.

**(b) Seed Distribution.**

Methods followed by the leading plant breeding and experiment stations and universities in Europe and America in the multiplication and distribution of improved strains are reviewed and the method adopted by the University of Alberta is very carefully studied.

Text-book: *Genetics in Relation to Agriculture*, Babcock and Clausen. *Breeding Crop Plants*, Hayes and Graber.

**54. Seed and Crop Judging.** 2 hrs lab.

Training is given in the judging of seeds, grains and standing crops; procedure in judging at plowing matches, field crop and better farming competitions, seed fairs, etc., in order that the student may have an accurate knowledge of the use of the score card, methods of procedure and the details involved in carrying out each of the above.

Prerequisite: F. H. 3 and F. H. 4.

**55. Experimental Methods.** 1 hr lect. sec. half.

The development of present day methods in crop experimentation; procedure in laying out projects; plot management; the use of checks or replicates; yield correction; interpretation of results; calculation of experimental error and general discussion of the problem of securing results of highest value.

Prerequisite: F. H. 1 and F. H. 51.

## GEOLOGY

### DEPARTMENT OF GEOLOGY

Professor Allan, Mr. Warren, Miss Lee.

- 32. Introductory Geology.** 2 hrs lect. first half.  
3 hrs lab. sec. half.  
External agencies of erosion; internal dynamic agents; interpretation of topographic maps; physiography of Canada; stratigraphic column; structural geology.  
Text-book: Pirsson and Schuchert, *Text-Book of Geology* (Wiley).
- 33.** Same as 32 for 1922-23. Open to students taking Honours in Botany and in Economics. (Lectures only).

#### Senior Courses.

- 51. General Geology.** 3 hrs lect., 3 hrs lab.  
Processes of destruction and reconstruction; interpretation of physiographical features with map study; stratigraphic column with index fossils from each period; common minerals and rocks.  
Text-book: Pirsson and Schuchert, *Text-Book of Geology* (Wiley).  
Zoology 1 recommended as a prerequisite.
- 52. Petrology.** 3 hrs lect., 3 hrs lab.  
Physical, chemical and optical properties of common rock-forming minerals; Classification and genesis of sedimentary, igneous and metamorphic rocks. Examination of rock sections. The last six hours are given to structural geology.  
Text-books: Pirsson, *Rocks and Rock Minerals* (Wiley); Leith, *Structural Geology* (Holt).  
Reference: Johannsen, *Determination of Rock-forming Minerals* (Wiley); Iddings, *Rock Minerals* (Wiley).  
Prerequisite: Geology 32.
- 53. Mineralogy and Petrology.** 3 hrs lect., 3 hrs lab.  
Principles of crystallography; physical and chemical properties of metallic and non-metallic minerals; blow-pipe analysis; principles of rock classification; de-



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termination of sedimentary, igneous and metamorphic rocks. Introduction to petrography.

Text-books: Kraus & Hunt, *Mineralogy* (McGraw-Hill); Lewis, *Determinative Mineralogy* (Wiley); Pirsson, *Rocks and Rock Minerals* (Wiley).

Reference: Brush & Penfield, *Determinative Mineralogy and Blow-pipe Analyses* (Wiley); Johannsen, *Determination of Rock-forming Minerals* (Wiley).

Prerequisite: Geology 51.

54. **Mineralogy.** 2 hrs lect., 3 hrs lab. first half.  
1 hr lect., 3 hrs lab. sec. half.

Physical and chemical properties of metallic and non-metallic minerals including hydrocarbons; elements of crystallography; descriptive and determinative mineralogy; blow-pipe analyses.

Text-books: Kraus & Hunt, *Mineralogy* (McGraw-Hill); Warren, *Manual of Determinative Mineralogy* (McGraw-Hill); Brush & Penfield, *Determinative Mineralogy and Blow-pipe Analyses* (Wiley).

Prerequisite: Geology 32. Geology 52 may be taken at same time.

55. **Stratigraphy.** 3 hrs lect., 3 hrs lab.

Discussion of principles of stratigraphy; special consideration to stratigraphy of North America with index fossils from each of the periods; interpretation of geological maps.

Text-book: Pirsson & Schuchert, *Text-book of Geology*, Part II (Wiley).

Reference: Grabau, *Principles of Stratigraphy* (Heath); Geological Survey Reports, Journals, etc.

Prerequisite: Geology 51.

56. **Historical Geology.** 3 hrs. lect., 3 hrs. lab. sec. half.  
Taken with Geology 55 second half.

Text-book: Pirsson & Schuchert, *Text-book of Geology*, Part II (Wiley).

Reference: Geological Survey Reports, Journals, Pamphlets, etc.

57. **Petrography.** 3 hrs. lab. first half.

Examination of thin sections of minerals and rocks.

Text-book: Johannsen, *Determination of Rock-forming Minerals* (Wiley).

## HEBREW

- 58. Mineral Deposits.** 3 hrs lect., first half.  
3 hrs lect., 3 hrs lab. sec. half.  
Classification, mode of occurrence and geological relations of various types of mineral deposits, including petroleum, natural gas and coal. Emphasis will be given to Alberta mineral deposits, including clays.  
Text-Books: W. Lindgren, *Mineral Deposits* (McGraw-Hill); W. H. Emmons, *Principles of Economic Geology* (McGraw-Hill); W. H. Emmons, *Geology of Petroleum* (McGraw-Hill).
- 62. Palaeontology.** 3 hrs lect., 3 hrs lab.  
Principles of classification; comparison with modern forms; representative fossils from each geological period; determination of type material.  
Text-book: Shimer, *Introduction to the Study of Fossils* (Macmillan).  
Reference: Zittel, *Text-book of Paleontology* (Macmillan); Geological reports, etc.  
Prerequisite: Zoology 1, Geology 51.

### Honours Courses.

Honours courses in Geology may be arranged at the beginning of the term with the head of the Department, in two of the following subjects:

101. Canadian Geology.
102. Stratigraphical Geology.
103. Petrography.

## DEPARTMENT OF HEBREW

Professor Miller.

### Senior Courses.

- 51. Elements of Hebrew.** 3 hrs.
- 52. Old Testament Historical Literature.** 3 hrs.  
(Not offered 1922-23.)
- 53. Selected Readings from Prophetic Books.** 3 hrs.



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DEPARTMENT OF HISTORY

Professor Burt, Assistant Professor Long, and Mr. Allwork.

**Junior Courses.**

1. **General History.** 3 hrs.  
Outlines of General History from the Renaissance to the present day.  
Text-books: Hayes, *A Political and Social History of Modern Europe*, Vol. I; Robinson & Beard, *The Development of Modern Europe*, Vol. II; Robinson, *Readings in European History*, Vol. II.
2. **British History.** 3 hrs.  
From 1485 to the present day.  
Text-books: Gardiner, *Student's History of England*, Vols. II. and III; *Atlas of English History*.
3. **British History.** 3 hrs.  
From the beginnings to 1485.  
Text-books: Oman, *England before the Norman Conquest*; Davis, *England under the Normans and Angevins*; Vickers, *England in the Later Middle Ages*.  
Reference readings will be assigned during the course.

**Senior Courses.**

53. **European History.** 3 hrs.  
From the Barbarian Invasions to the fall of the Hohenstaufen.  
Text-books: Emerton, *Introduction to the Middle Ages*; Emerton, *Mediaeval Europe*.  
Reference readings will be assigned during the course. (Not offered 1922-23.)
54. **European History.** 3 hrs.  
From the Renaissance to the end of the Wars of Religion.  
Text-books: Symonds, *Short History of the Italian Renaissance*; Froude, *Life and Letters of Erasmus*; Lindsay, *History of the Reformation*; Harrison, *William the Silent*; Gardiner, *Thirty Years' War*; *Cambridge Modern History* (selected chapters).  
Reference readings will be assigned during the course.

## HISTORY

### 56. European History. 3 hrs.

From the Congress of Vienna to the present day.

Text-books: Hazen, *Europe Since 1815*; Powers, *The Things Men Fight For*; Robinson and Beard, *Readings in Modern European History, Vol. II.*

Reference books: Lichtenberger, *Germany and its Evolution in Modern Times*; Steed, *The Hapsburg Monarchy*; Fisher, *The Republican Tradition in Europe*; Cesaresco, *The Liberation of Italy*; Lowell, *Governments and Parties in Continental Europe*; *Cambridge Modern History* (selected chapters).

Other reference readings will be assigned during the course.

### 57. English Constitutional History. 3 hrs.

Text-books: Maitland, *Lectures on English Constitutional History*; Adams and Stephens, *Select Documents of English Constitutional History*; Dicey, *The Law of the Constitution*. Reference readings will be assigned during the course. (Not offered 1922-23.)

### 58. Canadian History. 3 hrs.

Political and constitutional.

Text-books: Lucas, *New France*; Egerton, *Canada Under British Rule*; Durham's Report; Kennedy, *Documents of the Canadian Constitution*.

Reference readings will be assigned during the course.

## Honours and Graduate Courses

### 101. English History. 3 hrs.

From the accession of James I to the Restoration.

Text-books: Montague, *History of England, 1603 to 1660* for the general outline; Gardiner, *History of England, 1603 to 1642*; *History of the Great Civil War*; *History of the Commonwealth and Protectorate*; Firth, *Last years of the Protectorate*; *House of Lords During the Civil War*; *Cromwell's Army*; *Cromwell*; Hutton, *Laud*; Traill, *Strafford*; Prothero, *Statutes and Constitutional Documents 1559-1625*; Gardiner, *Constitutional Documents of the Puritan Revolution, 1625-1660*; Carlyle, *Cromwell's Letters and Speeches*; Clarendon, *History of the Rebellion and Civil Wars in England*; *Whitlocke's Memorials*; *Ludlow's Memoirs*; *Pepys' Diary*; *The Clarke Papers*.



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### 102. European History.

3 hrs.

From the outbreak of the French Revolution to the Congress of Vienna.

Text-books: Madelin, *The French Revolution*, and Rose or Fournier, *Napoleon I*, for the general outline; De Tocqueville, *L'Ancien Régime*; Taine, *Les Origines de la France Contemporaine*; Sorel, *L'Europe et la Revolution Française*; Belloc, *Danton*; Mahan, *The Influence of Sea Power on the French Revolution and Empire*; Morse Stephens, *The French Revolution*; Acton, *Lectures on the French Revolution*; Vandal, *L'Avènement de Bonaparte*; Fisher, *Napoleonic Statesmanship*; Aulard, *Political History of the French Revolution*; *Etudes et Leçons*; *The Cambridge Modern History*; Lavissee et Rambaud, *Histoire Générale*; von Sybel, *Geschichte der Revolutionszeit*; Seeley, *The Life and Times of Stein*; Oman, *A History of the Peninsular War*. Houssaye, 1814, 1815. (Not offered 1922-23.)

## DEPARTMENT OF HISTORY OF AGRICULTURE

Dean Howes.

### Junior Courses.

1. **History of Agriculture.** 1 hr.  
Study of ancient agriculture: South American, Grecian, Roman.
2. **History of Agriculture.** 1 hr.  
Evolution of agriculture in England and in continental Europe.

### Senior Courses.

51. 1 hr.  
Study of the development of agriculture in America, particularly in Canada.

## DEPARTMENT OF HORTICULTURE

Mr. Harcourt.

### Junior Courses.

1. **Horticulture.** 1 hr lect., 2 hrs lab.  
**Fruit Gardening.**  
Propagating, planting, cultivating, pruning, grafting, budding and hybridizing fruits; developing hardy varieties.

## HORTICULTURE

### **Landscape Gardening.**

The making and care of lawns; the planting of trees, shrubs, and flowers for decorative purposes; beautifying the home; windbreaks and screens; farm forestry.

### **Senior Courses.**

#### **51. Horticulture.**

2 hrs lect., 2 hrs lab.

#### **Vegetable Gardening.**

The selection of soils and locations; general principles of vegetable growing; cultural methods; hot beds, cold frames and their management; fertilizers; commercial gardening; forcing under glass.

#### **Floriculture.**

The principles underlying the propagating and growing of flowers for the house and garden, hanging baskets and window boxes.

#### **Fruit Growing.**

The selection of soils and locations; suitable shelter; the propagating, planting and cultivating of small fruits; the principles of pruning, grafting and budding; hybridizing fruits; the development of hardy fruits.

#### **Landscape Gardening.**

The making and care of lawns, walks, and flower borders. Planting trees, shrubs and flowers; beautifying the home grounds.

#### **Farm Forestry.**

The principles of farm forestry; the care and management of the farm nursery; plantations for the protection of buildings, crops and stock; the farm wood lot.



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DEPARTMENT OF HOUSEHOLD ECONOMICS

Miss Patrick and Miss Deadman.

Junior Courses.

1. 4 hrs sec. half.  
**Sewing.**  
Instruction in hand and machine sewing as applied to the making of simple garments.
2. 3 hrs lect., 3 hrs lab. first half.  
**Home Nursing.**  
Home care of the sick; emergencies; simple bandages.  
**Textiles.**  
The composition, physical properties and manufacture of fabrics; influence of these on selection and methods of cleansing.
3. 3 hrs lect., 3 hrs lab. sec. half.  
**Household Management.**  
Materials found in the home; principles involved in their care; the house, its equipment and furnishing. Labor-saving devices.  
**Foods.**  
An introduction to the study of foods and cookery.
31. 1 hr. lect., 3 hrs. lab.  
**Experimental Cookery.**  
Experimental study of foods to determine the best methods of preparation. Individual problems will be assigned.
32. 3 hrs lect., 3 hrs lab.  
**Textiles.**  
Fibres: Classification; physical and chemical structure; physical and chemical test for fibres.  
Fabrics: Manufacture; adulterations; uses in the household; laundering of fabrics.  
**Household Management.**  
Materials found in the home; principles involved in their care; the house; its equipment and finishings; labor saving devices.

## HOUSEHOLD ECONOMICS

### Senior Courses.

51. 3 hrs lect., 3 hrs lab.  
**Foods.**  
A study of foods; laboratory practice in food preparation.  
**Home Nursing.**  
The care of the sick in the home.  
**Household Management.**  
The care of the house, furnishings and equipment; labor-saving devices.
52. 3 hrs lect., 3 hrs lab.  
**Economics of the Household.**  
The home as a business; the income and its expenditure; standards of living, budgets; household and personal accounts.  
**Foods.**  
Nutritive value and cost of foods; food for the family group; planning and preparation of meals; special diets.
55. 2 hrs. lect., 8 hrs. lab.  
**Foods.** Lectures and discussion.  
Typical foods—production, manufacture, composition, value in the diet. Supplementary reading will be required and used as a basis for class discussion.  
Laboratory work: an experimental study of foods; the principles of cookery. Preparation of typical foods.
56. 2 hrs.  
**Economics of the Household.**  
The home as a business; the income and its expenditure; standards of living, budgets; household and personal accounts.
57. 2 hrs lect., 3 hrs lab.  
**Dietetics.**  
The principles of nutrition applied to the feeding of individuals and the family group under normal conditions. Diets for special cases.



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58. 3 hrs lab. first half.  
**Invalid Cookery.**  
An application of the principles of cookery to dishes for the sick and convalescent.
59. 3 hrs sec. half.  
**Methods.**  
The problem of teaching. Household Economics; equipment, arrangement of courses; methods of presentation of subject matter; demonstrations.

### DEPARTMENT OF MATERIA MEDICA

Professor Gaetz.

#### Junior Courses.

1. **Official Drugs.** 4 hrs lect.  
Inorganic and organic.
3. **Official Drugs.** 1 hr lect.  
A selected group, both inorganic and organic. For Medical students.
4. 1 hr lect., 2 hrs lab.  
A course for students in Dentistry. It deals with the source, physical properties, chemical constitution and properties, pharmacy and pharmacology of a selected list of important drugs of special significance to dental practitioners. It is co-ordinated and runs concurrently with a laboratory course in Pharmacology.

#### Senior Courses.

51. **Official Drugs.** 4 hrs lect.  
Inorganic and Organic.
52. **New and Nonofficial Drugs.** 3 hrs lect.  
A selected list of important new drugs and a more minute study of some important official drugs.  
Text-books: Bruce and Dilling, *Materia Medica and Therapeutics*; *British Pharmacopoeia*; American Medical Association, *New and Nonofficial Remedies* (Students in *Materia Medica* 52 only).  
Supplementary: Greenish, *Materia Medica*; Squire's *Companion to the British Pharmacopoeia*; Culbreth, *Materia Medica and Pharmacology*; Martindale, *Extra Pharmacopoeia*.

## MATHEMATICS

### DEPARTMENT OF MATHEMATICS

Professor Sheldon, Professor Killam, Associate Professor Campbell, Mr. Milne, and Mrs. Mitchell.

#### Junior Courses.

1. **General Elementary Mathematics.** 3 hrs.  
Lectures on the fundamental principles and methods of algebra, geometry, trigonometry, and statistics; applications of mathematics in science, industry and art. Text-books: Whitehead, *Introduction to Mathematics* (Home Univ. Lib.); Thomson, *Introduction to Science* (Home Univ. Lib.); Young and Morgan, *Elementary Mathematical Analysis* (Macmillan).  
Required for first year students in Arts and Sciences and in Architecture.
2. 3 hrs.  
The technique of Mathematics 1; required of first year students in Architecture, and of students taking Mathematics 1 in preparation for Engineering.  
Text-books: Clapham, *Arithmetic for Engineers* (Dutton); Young and Morgan, *Elementary Mathematical Analysis* (Macmillan).
3. 3 hrs.  
The advanced section of Mathematics 1: lectures on the most fundamental topics in Mathematics 1 and 7. For students who intend to begin specialization in scientific subjects in the second year.  
Text-book: Young and Morgan, *Elementary Mathematical Analysis* (Macmillan).
7. **Algebra and Analytic Geometry.** 3 hrs.  
Elementary functions; analytic geometry; statistics.  
Text-books: Gale and Watkeys, *Elementary Functions* (Holt); Smith and Gale, *New Analytic Geometry* (Ginn).
21. **Elementary Mathematical Analysis.** 6 hrs.  
Power, polynominal, exponential, logarithmic and circular functions. Graphic algebra. Errors and approximations; slide rule; tables; theory of equations;



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infinite series; derivatives and anti-derivatives. Applications to plane and solid geometry and spherical trigonometry.

Text-books: Gale and Watkeys, *Elementary Functions* (Holt)); Smith and Gale, *New Analytic Geometry*, (Ginn); Betz and Webb, *Solid Geometry* (Ginn); Murray, *Spherical Trigonometry* (Longmans).

Required of first year students in Engineering and of second year students in Architecture.

**22. Elementary Mechanics.** 2 hrs lect., 3 hrs lab.

Kinematics; vectors; Newton's laws, with applications to dynamics; impact, direct and oblique; work, energy, power; moments of forces; centres of gravity; dynamics of rotation and revolution; simple harmonic motion; machines; elasticity; hydrostatics and hydrodynamics, including Bernoulli's theorem.

Text-books: Duncan and Starling, *Text-book of Physics, Part I* (Macmillan), omitting Chapters I, II, XI, and XXII.

**25 and 26. Calculus and Mechanics.** 6 hrs.

A first course in the Calculus. Statics and Dynamics. Applications of the Calculus in various sciences, especially in Mechanics.

Text-books: Caunt, *Introduction to Infinitesimal Calculus* (Oxford); Lamb, *Dynamics and Statics* (Cambridge).

**31. Elementary Mathematics (Agriculture).** 3 hrs.

Review of Arithmetic; fundamental methods of algebra; computation; statistical and other graphs.

Text-books: Clapham, *Arithmetic* (Dutton).

Reference books: Brinton, *Graphical Methods* (Eng. Mag. Co.); Wolff, *Mathematics for Agricultural Students* (McGraw-Hill).

**32. Elementary Mathematics (Medicine).** 3 hrs. first half.

Proportion, similitude; rate of growth; trigonometry; computation; graphical methods; theory of measurement elementary statistics.

Text-book: Gale & Watkeys, *Elementary Functions* (Holt).

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- 36. Elementary Mathematics (Pharmacy).** 1 hr.  
The arithmetic and algebra required in Pharmacy.  
Text-book: Stevens, *Arithmetic of Pharmacy* (Van Nostrand).

### Advanced Courses.

Students in the Faculty of Arts and Sciences who intend to read for honours are required to take in the first year Mathematics 3 and in the second year Mathematics 55 and 22.

### Senior Courses.

- 53. Astronomy.** 3 hrs.  
History of early astronomy, study of the earth; astronomical coordinates, time. The solar system, the stars, structure of the universe, origin of the solar system. Practical work in the observatory; study of the constellations; discussion of articles in current journals.  
Text-book: Moulton, *Introduction to Astronomy* (Macmillan).
- 55. Calculus.** 3 hrs.  
As in Mathematics 25, with additional topics.
- 56. Mechanics.** 3 hrs.  
As in Mathematics 26, with additional topics.
- 57. Advanced Calculus.** 3 hrs.  
A second course in the Calculus, including differential equations.  
Text-book: Woods and Bailey, *Course in Mathematical Analysis, Part II*.
- 58. Advanced Mechanics.** 3 hrs.  
Dynamics of rigid bodies; celestial mechanics.
- 59. Advanced Calculus.** 2 hrs.  
For Electrical Engineering students.  
Text-book: Woods & Bailey, *Mathematical Analysis, Part II*.
- 61. Theory of Finance.** 3 hrs.  
Interest, annuities, amortization, valuation of bonds, sinking funds and depreciation, theory of probability; elements of the mathematical theory of life assurance, including the calculation of net premiums.  
Text-book: Rietz-Crathorne-Rietz, *Mathematics of Finance* (Holt).



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### 62. **Statistics.** 3 hrs.

Use of statistics, collection of material and the history of statistics; frequency distributions and graphical representation of statistical results; averages; dispersion, correlation; statistical application of life tables.

Text-book: Jones, *A First Course in Statistics* (Bell).  
(Not offered in 1922-23).

### 63. **Graphical and Numerical Methods (Engineering).** 2 hrs lect., 3 hrs lab. sec. half.

Application of graphical methods to algebra and calculus. Nomography. Introduction to the theory of probabilities and measurements.

Text-book: Lipka, *Graphical and Numerical Methods* (Wiley).

### 64. **Vector Analysis.** 3 hrs.

(Not offered in 1922-23).

### **Honours Courses.**

The courses offered will be selected from the following:

#### **101—110.**

Elementary Theory of Functions; Graphical and Numerical Methods; Solid Analytic Geometry; Projective Geometry; Theory of Functions; Algebra; Differential Equations; Mechanics (Honours); Finance (Honours); Fundamental Topics.

### **Graduate Courses.**

Courses for the Master's degree may be arranged in conference with the head of the department.

## **DEPARTMENT OF MINING ENGINEERING**

Professor Pitcher and Associate Professor Cameron.

The Department will endeavor to find employment for its students during the summer months in the mines of Alberta and British Columbia, thereby giving them opportunity to get the necessary practical experience in their chosen field. A student, before being granted his degree, must present a certificate or certificates showing that he has had at least 6 months practical

## MINING ENGINEERING

experience in coal, metal or shale mining (in or around a mine) or in Geological field work, or such experience as shall be considered the equivalent of these.

All students are required to take the Mine Survey School.

All students, before the fourth year, must be able to show:

(a) A certificate of having passed a course in First Aid work, as prescribed by the Workmen's Compensation Board of the Province of Alberta;

(b) A certificate of having taken a course in Mine Rescue work as prescribed by the Workmen's Compensation Board of the Province of Alberta.

The Department does not require the student to purchase text-books for the various courses, but prescribes a list of references from which he is expected to do selected reading. Certain handbooks and standard text-books are recommended as desirable for constant reference and to form the nucleus of a reliable working library.

Three Options.—Coal Mining, Metal Mining and Mining Geology, are offered in the fourth year. The student is expected to decide at the end of his third year which course he desires to follow, and his work is laid out accordingly.

### Senior Courses.

52. **Mining Plant.** 2 hrs. lect., 3 hrs. lab. sec. half.  
Outline of standard plant requirements for a mine, Mine cars, chutes and chute gates, cages and skips, shafts, ropes, sheaves and pulleys, dumping arrangements, screening plant and breaker house, weigh basket. Drafting room work on arrangement and design of plant. Concurrent with M. E. 56.
54. **Fire Assaying.** 1 hr. lect., 3 hrs. lab., first half.  
Furnaces, balances, and other apparatus; sampling and preparation of ores for assay, special methods of assay; assays for gold and silver.  
Prerequisite: Chem. 1.



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- 55. Prepared Fuels.** 2 hrs. lect., sec. half.  
Coke, by-products from coke, producer gas, powdered coal, colloidal coal, low-temperature distillation, coal briquettes, fuel oils.  
Required of students taking Coal Mining.  
Prerequisite: Chem. 1.
- 57. Mine Survey School.**  
An extended trip to visit local and other mining districts of the province and adjacent mining areas of British Columbia. Detailed reports on all mines visited are required from each student. A number of days are spent on practical underground surveying, and a closed survey of at least ten sights made. Field notes of the survey and plotted map are required of each student. Members of the Geology Department of the University accompany the survey school and the areal geology of each district will be studied under their supervision.  
Prerequisite: C.E. 7
- 58. Metallurgy.** 2 hrs. lect., 3 hrs. lab., sec. half..  
Metallurgical fuels, calorimetry and pyrometry, refractory materials, introduction to metallography and study of alloys, metallurgy of iron and steel, copper, lead and zinc.  
Prerequisite: Chem. 55.  
Required of students taking Metal Mining and Mining Geology.
- 59. Coal Mining.** 2 hrs. lect., 3 hrs. lab., first half.  
Coal mine development, pit bottom, entries, pillars, room and pillar running, longwall mining, flat seams, pitching seams, thick seams, multiple seams, illumination, preparation of coal for market, coal washing, examination, valuation and administration.  
Prerequisite: M.E. 56.  
Required of students taking Coal Mining.
- 60. Metal Mining.** 2 hrs. lect.  
Alluvial mining, hydraulic mining, open cuts and quarrying, glory hole and milling, underhand and overhand stoping, open and timbered stopes, shrink-

## MINING ENGINEERING

age stopes, filled stopes, caving methods, illumination and ventilation, mine examination, valuation and administration.

Required of students taking Metal Mining or Mining Geology.

61. **Mining Machinery.** 3 hrs. lect., first half.  
Head frames and tipples, bins, winding engines, drums, gravity planes, engine planes, hoisting and haulage, aerial tramways, pumps, compressors, power plant layout, etc.  
Prerequisites: C. E. 57, C. E. 70.
62. **Ventilation.** 1 hr. lect., first half.  
Gases found in coal mines, natural and artificial ventilation, mine resistance, airways and control of air current, splits, brattices, doors, regulators, disc and centrifugal fans, mine fires and explosions, mine rescue.  
Required of students taking Coal Mining.
63. **Ore Dressing and Milling.** 2 hrs. lect., 3 hrs. lab., sec. half.  
Specific gravity separations and concentrations, crushers, screens, classifiers, jigs, tables, vanners, etc., amalgamation and cyanidation, flotation, electromagnetic and other dry separators.  
Required of students taking Metal Mining and Mining Geology.
64. **Mine Design.** 3 hrs. lab., first half.  
Layout and plant equipment for a mine, general and detail drawings showing method of running, timbering, shaft station or pit bottom, surface layout, screening plant or concentrating mill, power plant, etc. Report on the mine with estimate of cost.  
Required of students taking Coal Mining and Metal Mining.
65. **Fuel, Oil, Water and Gas Analysis.** 6 hrs. lab.  
Laboratory work on analysis of Fuels, Oils, Boiler Waters, and Flue Gases.  
Prerequisite: Chem. 55.  
Required of students taking Coal Mining.



## UNIVERSITY OF ALBERTA

- 66. Compressed Air Machinery.** 2 hrs. lab., first half.  
Compressors, distribution, reheating, receivers, hoists,  
pumps, air engines.  
Prerequisite: C. E. 57.  
Required of students taking Coal Mining.

### Graduate Courses.

Courses for degree of Master of Science may be arranged in conference with the head of the department.

## DEPARTMENT OF MODERN LANGUAGES

Professor Kerr, Professor Coar, Associate Professor Sonet,  
Assistant Professor Pelluet, Mr. Owen, Mr. de  
Savoye, Mr. Jean-Richard.

Students entering the University deficient in the languages and who in their first year are taking the A courses may be permitted if they pass with second class standing (that is, 65 per cent), to read the authors of the First Year course during the summer and write these off at the time of the supplemental examinations in September. No credit will be granted until the second year work in the language concerned has been successfully completed.

Students intending to apply for the privilege referred to above (for which a special fee of five dollars is charged) should notify the Registrar's office not later than April 30.

### French

- A Introductory French.** 4-5 hrs.  
Forms, elementary syntax; oral work; easy prose authors; prose composition.  
Text-books: Kerr and Sonet, *French Grammar*; Labiche, *Voyage de Monsieur Perrichon*.

### Junior Courses.

- 1—3.** 3 hrs.  
Modern French stories such as: Erckmann-Chatrian, *Histoire d'un Conscrit de 1813*; Halévy, *L'Abbé Constantin*; About, *Le Roi des Montagnes*.

## FRENCH

### **Composition and Conversation.**

Text-books: Kerr and Sonet, *French Grammar*, Part II.  
Dictation, composition and oral work based on the authors read.

Prerequisite: Matriculation French or Course A.

5—4.

3 hrs.

Modern French stories such as: Mérimée, *Colomba*; Hugo, *Les Misérables*; Maupassant, *Contes*; Coppée, *Pour la Couronne*.

### **Composition and Conversation.**

Text-book: Vreeland and Koren, *French Composition* (Holt).

Oral work and dictation based on the authors read.

Prerequisite: Grade XII French or Course 1—3.

#### **41. Scientific French.**

2 hrs.

(a) Authors. Introduction to the reading of scientific texts, selected with a view to the needs of engineering students.

(b) Composition and conversation. Kerr and Sonet, *French Grammar*.

Prerequisite: French 1—3.

#### **42. Scientific French (continuation of French 41)**

2 hrs.

(a) Authors. Advanced scientific and general texts.

(b) Composition and conversation. Kerr and Sonet, *French Grammar*.

Prerequisite: French 41.

#### **45. Scientific French.**

2 hrs.

Authors. Introduction to the reading of scientific texts, selected with a view to the needs of medical students.

Composition and Conversation. Kerr and Sonet, *French Grammar*.

### **Senior Courses.**

#### **51. (a) Eighteenth Century.**

3 hrs.

Montesquieu, *De l'esprit des lois*; Le Sage, *Turcaret*; Marivaux, *Comédies*; Voltaire, *Lettres philosophiques*; *Candide*, *L'ingenué* and other selections; *Théâtre*; Rousseau, *La Nouvelle Héloïse*; *Emile*, *Le Contrat Social*; Diderot, *Extracts*; *The Encyclopaedists*; Beaumarchais, *Théâtre*.



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**(b) Composition and Oral Work.**

Text-books: Cameron, *French Composition*; Mansion, *Histoire de la Littérature Française*.

52. (a) **Nineteenth Century. Part 1.** 3 hrs.  
Chateaubriand, *Atala* and extracts from *Le Génie de Christianisme*; Victor Hugo, *Hernani*, *Notre Dame de Paris*, *Les Misérables*; De Vigny, *Servitude et grand-curs militaires*; Alfred de Musset, *Confessions d'un Enfant du Siècle*; George Sand; Stendhal; A study of the poetry of the period through Berthon's *Specimens of Modern French Verse*; Lamartine, Victor Hugo, de Vigny, de Musset.

**(b) Composition and Oral Work.**

Text-books: Auger, *Grammaire*; *Certificat d'Etudes*; Mansion, *Histoire de la Littérature Française*.

(Not given 1922-23.)

53. (a) **Nineteenth Century. Part 2.** 3 hrs.  
Balzac, *Eugenie Grandet*; Sainte-Beuve, *Essays*; Renan, *Souvenirs d'Enfance et Jeunesse*; Taine, *Les Origines de la France contemporaine*; Flaubert, *Mme. Bovary*; Gautier, *Voyage en Espagne*; Mérimée, *Colomba*. Selections from Maupassant and Zola. A study of the Parnassiens and of Baudelaire and Verlaine.

**(b) Composition and Oral Work.**

Text-books: Auger, *Grammaire*; *Certificat d'Etudes*; Mansion, *Histoire de la Littérature Française*.

(Not given 1922-23.)

54. (a) **French Literature in the XVII Century.** 3 hrs.  
Introduction to the literature and thought of the Golden Age; selections from the works of the following authors: Molière, Corneille, Racine, Descartes, Pascal, Laroche foucauld, Madame de Lafayette, Madame de Sévigné, La Fontaine, Bossuet, La Bruyère.

**(b) Composition and Oral Work.**

Text-books: Auger, *Grammaire*; *Certificat d'Etudes*; Mansion, *Histoire de la Littérature Française*.

(Not given 1922-23.)

## GERMAN

- 55. (a) French Canadian Literature.** 3 hrs.  
Origins and development.  
Selected works of de Gaspé, Gérin-Lajoie, Crémazie, Frechette, Chauveau, Marmette, Le May, Chapman, Choquette, Laure Conan, Lozeau, Routhier.
- (b) Composition and Oral Work.**  
Text-books: Spiers, *Graduated Course of Translation into French Prose.*

### Honours Courses.

- 101. Romanic Philology.** 1 hr.  
Introduction to historical phonology; reading of Old French texts.  
Prerequisite: Two of the following courses: 51, 52, 53, 54.
- 102. French Literature.** 2 hrs.  
Study in a special field, discussions, reports, theses.  
Prerequisite: Two of the following courses: 51, 52, 53, 54.

### German.

- A Introductory German.** 4-5 hrs.  
This course will cover the common inflections and the elementary rules of syntax. It aims to give students a reading knowledge of easy German. Oral work and composition based on the authors.

### Junior Courses.

- 1—3. Authors.** 3 hrs.  
Short stories and plays, oral work.  
**Composition.**  
Review of German A. Supplementary study of grammatical and syntactical forms. Dictation, composition and oral work based on the authors read.  
Prerequisite: Matriculation German or Course A.
- 2—4. Authors.** 2 hrs.  
Modern German short stories with some reference to their stylistic qualities. Oral work.



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**Composition.**

Special problems of Grammar and Syntax. Formation of words, etc. Oral work. Composition based on the authors read

Prerequisite: Grade XII or Course 1—3.

**41. Scientific. 2 hrs.**

Introduction to the reading of scientific texts.

Prerequisite: Course 1—3.

**42. Scientific. 2 hrs.**

Advanced scientific texts.

Prerequisite: German 41.

(Not given in 1922-23.)

**Senior Courses.**

**51. 3 hrs.**

German life and literature in the nineteenth century prior to the formation of the Empire.

Text-book: Coar's *German Literature in the Nineteenth Century*. Romanticism, Jung Deutschland, Realism, Sentimentalism.

Prerequisite: Course 2—4.

(Not given in 1922-23.)

**52. 3 hrs.**

German life and literature in the eighteenth century prior to Goethe and Schiller. Special reference to the influence of English and Romance literatures. Klopstock, Anacreontics, Lessing, Wieland, Herder.

Prerequisite: Course 2—4.

**53. 3 hrs.**

German life and literature in the nineteenth century since the formation of the Empire. Nationalism, naturalism, symbolism.

Text-book: Coar's *German Literature in the Nineteenth Century*.

Prerequisite: Course 51 or 52. (Not given 1922-23.)

## PHARMACY

54. 3 hrs.  
German life and literature from the French Revolution to the Napoleonic wars. Classicism, Goethe and Schiller; Romanticism, Fichte.  
Prerequisite: Course 51, or 52, or 53. (Not given 1922-23.)

### Honours Courses.

101. Germanic Philology. 1 hr.  
Middle High German, Historical Grammar; Paul's *Mittelhochdeutsche Grammatik*.  
Prerequisite: Two of the following courses: 51, 52, 53, 54.
102. German Literature. 2 hrs.  
Study in a special field. Discussions, reports, thesis.  
Prerequisite: Two of the following courses: 51, 52, 53, 54.

### Graduate Courses.

Graduate students desiring courses in German should consult the head of the department.

## DEPARTMENT OF PATHOLOGY

Professor Ower and Dr. Hall.

### Senior Course.

51. General Pathology. 4 hrs. lect. first half.  
1 hr lect., 4 hrs lab. sec. half.  
A series of lectures on General Pathology. Laboratory work in Pathologic Histology. A short series of demonstrations of gross specimens. Postmortem examinations. Attendance at one autopsy required of each student.

## DEPARTMENT OF PHARMACY

Professor Gaetz and Assistant Professor Dunn.

### Junior Courses.

1. General and Galenical Pharmacy. 3 hrs lect.  
History and literature; metrology; operations and appliances; preparations, plant constituents.



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2. **Prescriptions and Dispensing.** 1 hr lect.
3. **Prescriptions and Dispensing** (for Medical students)  
1 hr sec. half.
4. **Practical Pharmacy.** 6 hrs lab.  
Concurrent with Pharmacy 1 and 2; general technique;  
the manufacture of galenicals; typical alkaloidal ex-  
tractions and assays; dispensing of prescriptions.

### Senior Courses.

51. **General and Galenical.** 3 hrs lect.
52. **Prescriptions and Dispensing.** 1 hr lab.
54. **Practical Pharmacy.** 6 hrs lab.
55. **Advanced Practical Pharmacy.** 6 hrs lab.  
Chemical methods of identification; determination of  
purity; analysis and synthesis of medicinal substances.  
Textbooks: *London Essentials of Pharmacy*; Heebner,  
*Synopsis of British Pharmacopoeia Preparations*.  
Supplementary: Lucas, *Practical Pharmacy*; Arny, *Principles  
of Pharmacy*; Scoville, *The Art of Compounding*; Ruddiman,  
*Incompatibilities in Prescriptions*.

## DEPARTMENT OF PHILOSOPHY

Professor MacEachran, Assistant Professor Macdonald and  
Mr. MacPhee.

### Junior Courses.

1. **Psychology and Logic.** 3 hrs.  
An introduction to general and experimental psychol-  
ogy and logic. This course is intended to serve as  
an introduction to advanced psychology and to edu-  
cation. It will involve the following:  
(a) A study of the evolution of consciousness in re-  
lation to the evolution of the nervous system.

## PHILOSOPHY

- (b) An analysis of sensation, perception, imagination, memory, the instincts, the emotions, the sentiments, the unconscious, volition, reasoning, etc.
- (c) The application of psychological and logical methods to the study of the learning processes.  
(Not given 1922-23.)

### 2. Introduction to General and Social Psychology.

3 hrs.

The course will include (a) a general study of the nervous system; (b) a study of the principal phenomena of mental development and an analysis of the special mental functions, sensation, perception, imagination, memory, etc.; (c) the study of the instincts, innate tendencies, emotions, sentiments, etc.; (d) the principal phenomena of collective behaviour; (e) the origin of language, the myth, custom, morality, law and religion.

### Senior Courses.

#### 51. History of Philosophy. 3 hrs.

The history of thought from the ancients to the present time. In this course special attention will be given to those philosophical and scientific theories which have been most closely related to social, ethical and educational problems.

#### 52. English Philosophy. 3 hrs.

Modern and Contemporary English Philosophy.

#### 53. Contemporary Philosophy. 3 hrs.

A study of recent tendencies in Naturalism, Idealism, Pragmatism, Pluralism, Realism and Evolutionism.

#### 54. Ethics and Social Morality. 3 hrs.

A study of the historical development of moral standards in relation to social and economic conditions. This course is intended to familiarize the student with the main aspects of ethical history and theory.

(Not offered 1922-23.)



## UNIVERSITY OF ALBERTA

### Honours Courses.

Candidates for honours will take courses 51, 52, and 53, but additional reading and essays will be prescribed. In addition, specialized work will be required in one of the following:

**101. Greek Philosophy.**

**102. Modern Philosophy.**

**103 — 107.** One of the following: Logic, Ethics, Aesthetics, Metaphysics, the Philosophy of Religion.

**108. History of Philosophical and Scientific Thought.**  
Advanced course.

### Graduate Courses.

Candidates for the degree of M.A. may pursue any of the above Senior or Honours Courses not already taken in their undergraduate work. In course 102 candidates doing their major work in Modern Languages may specialize in either Modern French Philosophy or Modern German Philosophy.

## Psychology.

### Junior Courses.

- |                        |        |
|------------------------|--------|
| 1. (See Philosophy 1.) | 3 hrs. |
| 2. (See Philosophy 2.) | 3 hrs. |

### Senior Courses.

- 51. Psychology.** (General and Experimental Psychology). The course will involve: (a) a brief history of Psychology. The historical outline will aim at furnishing a basis for the understanding of the principal present-day movements in Psychology. (b) A study of the general principles of mental development in their relation to the development of the nervous system. (c) Application of experimental methods to the study of sensation, perception, imagination, memory, etc. (d) The experimental investigation of the learning process.

## PSYCHOLOGY

**52. Psychology.** (Social Psychology and Social Anthropology.) 3 hrs.

The course will include: (a) a detailed study of social influences in their relation to the development of personality. (b) A critical study of anthropological data regarding the origin of language, myth, custom, morality, law, art and religion.

**53. Medical Psychology.** 3 hrs.

A study of the nature of the normal and abnormal phenomena of the human mind. Some of the topics to be discussed are: attention, perception, memory, imagination, judgment, instincts, emotions, sentiments, volition, etc., and their abnormal forms; personality; suggestion, hypnotism, re-education, and psychoanalysis; mental deficiency; the psycho-neuroses; the psychology of insanity.

**54. Industrial Psychology.** 3 hrs.

A study of the facts of normal and abnormal psychology in their application to the problems of industry. Some of the subjects to be discussed are: instincts in industry; the causes, nature, and importance of individual differences; the influence of environmental factors on efficiency; work fatigue and mental hygiene; the vocational selection of employees, with a study of the history, theory and practice of mental measurements; the psychology of scientific management; advertising and salesmanship.

**55. Educational Psychology.** 3 hrs.

Consists of lectures, discussions and experimental work. Special attention will be given to: the instincts, emotions and sentiments; psychophysical development; individual differences; the learning process; aesthetic and ethical development; work, fatigue and mental hygiene. Students will be introduced to experimental procedure, will be required to become familiar with mental and pedagogical tests and scales, and will undertake actual experimental work.



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### 56. Legal Psychology.

3 hrs.

A study of mental processes in relation to problems of judicial procedure. The facts of normal psychology will be discussed and an analysis made of various mental abnormalities which may result in criminal action. Some of the special problems to be discussed are: motivation of crime; mental deficiency and insanity, and their relation to responsibility; juvenile delinquency; the crimes of crowds; recidivism; factors affecting the reliability of testimony; psychological agents of use in the discovery of guilt; punishment. Principles will be illustrated by case and statistical studies.

### Honours Courses.

Candidates for honours will take courses 51 and 52 and any one of the other four general courses, but additional reading, essays and laboratory work will be prescribed. In addition specialized work will be required in one of the following:

#### 101. Physiological Psychology.

3 hrs.

#### 102. Abnormal Psychology.

3 hrs.

#### 103. The Psychology of Religion.

3 hrs.

#### 104. General and Experimental Psychology, (Advanced Course.)

3 hrs.

This course will involve a more advanced study of the facts of mental development. Present-day movements in Psychology will be examined and attention will be paid to current discussions. Experimental methods will be applied to the study of special problems. This part of the course will aim, generally, at a thorough training in the technique of psychological experiment.

#### 105. Educational Psychology, (Advanced Course.)

3 hrs.

Consists of lectures, discussions and experimental work. A study of statistical methods as applied to education; the psychology of special school subjects (two or

## EDUCATION

three to be selected each year); special abilities and disabilities; mental deficiency; mental adjustments. The student will examine all the best known tests, and familiarize himself with the bulletin and periodical literature in which these tests are discussed. Prerequisite: Psychology 55.

### Graduate Courses.

Candidates for the M.A. degree may pursue any of the above senior or honours courses not already taken as undergraduate work.

### Education.

#### 51. History of Education. 3 hrs.

An advanced course. A comprehensive examination of the development of educational theory and practice from the early days of Greece until the present time. Students will be required to study, critically, the works of the great educational writers; the social factors that have effected changes in education; the development of educational legislation in the leading countries of the world. (Not given 1922-23.)

#### 52. Philosophy of Education. 3 hrs.

A study of the philosophic basis and meaning of education. The course will involve a study of:

- (a) The end of education; different historical versions of the end; proximate ends; the ultimate end.
- (b) The philosophic significance of the human values (Science, Art, Morality, etc.).
- (c) The process of education:
  - 1. Logical and psychological aspects.
  - 2. Educative institutions: the school, the church, the family, voluntary associations, e.g. economic, professional, trade, cultural.

(Not given 1922-23.)



## UNIVERSITY OF ALBERTA

### 53. **Modern Educational Systems and Problems.** 3 hrs.

A comparative study of systems of organization and administration in some of the leading countries of the world. Some of the specific problems to be discussed are: the sociological determination of objectives in education; methods of supervision; types of schools; curricula; teacher-training; classification and promotion of pupils; school surveys; finance; the application of statistical methods to education. Students will be required to familiarize themselves with current changes in educational theory and practice. (Not given 1922-23.)

## DEPARTMENT OF PHYSICS

Professor Boyle, Associate Professor Smith, Associate Professor MacLeod, Mr. Lang, Mr. Morgan, Mr. Lehmann.  
and .....

### Junior Courses.

#### 1. **General Elementary Physics.**

3 hrs., 2 hrs. lab.

Including the more important principles of mechanics, properties of matter, heat, sound, light, magnetism, and electricity. Illustrated by experiments.  
For first year Arts and Sciences, Household Economics, and the Degree Course in Pharmacy.  
Text-book: Kimball's *College Physics*.

#### 11. **General Elementary Physics.** 3 hrs. lect., 2 hrs. lab.

The same range as in Course 1, but for, and more particularly applied to, students of first year Medicine.

#### 21. **The same: For first year students of Dentistry and Pharmacy.**

Text-book: Kimball's *College Physics*.

#### 31. **General Elementary Physics.**

3 hrs. lect., 2 hrs. lab.

Range more restricted than Course 1 and more particularly applied to students of first year Agriculture.  
Text-book: Carhart & Chute, *Physics with Applications*.

## PHYSICS

3. (a) **Properties of Matter, Molecular Mechanics, and Heat.** 3 hrs. lect., 3 hrs. lab., first half.

(b) **Sound and Light.**

3 hrs. lect., 3 hrs. lab., sec. half.

For first year Engineering students, and second year, or well prepared first year students of Arts and Sciences. Illustrated by experiments.

Text-books: Duncan & Starling, *Text-book of Physics*, Allan & Moore, *Text-book of Practical Physics*.

6. **Magnetism and Electricity.** 3 hrs. lect., 2 hrs. lab.

A course prerequisite to more advanced courses in electrical physics and in electrical engineering. Illustrated by experiments. For second year Engineering students and second year students of Arts and Sciences.

Text-books: Brooks & Poyzer, *Magnetism and Electricity*; Allan & Moore, *Text-book of Practical Physics*.

8. **General Physics, Selected Topics**

3 hrs lect., 3 hrs lab.

Introductory to the work of senior and honours classes. For second year Arts and Sciences.

12. **Optics and Radiation.** 3 hrs lect., 3 hrs lab.

More advanced than the same subjects in Courses 1 and 3(b), and introductory to the work of senior and honours classes. Illustrated by experiments. For second year Arts and Sciences.

Text-book: Edser's *Light for Students*.

### Senior Courses.

For the year 1922-23, Physics 6, 8, and 12 may be taken as ordinary courses, but not for honours or for specialists certificates.

51. **Physical Optics.** 3 hrs lect., 3 hrs lab.

A course on Wave Theory, dealing especially with interference, diffraction, polarisation, double refraction, and spectroscopy.

Reference books: Houston, *Treatise on Light*; Preston, *Theory of Light*; Wood, *Physical Optics*.



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53. **Electrical Physics.** 2 hrs. lect., 3 hrs. lab.  
Of direct and alternating current circuits, electrical and magnetic testing, precision electrical measurements, electric units and their dimensions.  
Text-book: Starling, *Electricity and Magnetism*.
54. **A Course on Special Selected Topics.** (If required.)  
3 hrs. lect., 3 hrs. lab.
57. **Introduction to Mathematical Physics.** 3 hrs. lect.  
Text-book: Houston, *Introduction to Mathematical Physics*.

### Honours Courses.

Honours courses may be chosen from the senior courses by arrangement with the department.

101. **Modern Atomic Physics Theory.** 3 hrs. lect., 6 hrs. lab.

## DEPARTMENT OF PHYSIOLOGY AND PHARMACOLOGY

Professor Downs, Assistant Professor Eddy, Dr. Bell, and Dr. Smith.

### Physiology.

The courses given in this department extend through two years and comprise lectures, laboratory work, demonstrations and conferences.

### Junior Course.

1. 3 hrs. lect., 3 hrs. lab.  
The physiological phenomena of the blood, circulation, digestion, absorption, assimilation, excretion, respiration and animal heat are studied in detail.

### Senior Courses.

51. 3 hrs. lect., 3 hrs. lab.  
The study of secretion (external and internal), muscle, nerve, the central nervous system, special senses and heredity constitutes the senior course.

## PHARMACOLOGY

61. 3 hrs. lect., 3 hrs. lab.

The same as Physiology 1. A senior subject open to students in Arts and Sciences.

Prerequisites: Chemistry 1 and Chemistry 52.

Text-books for all courses: Flack and Hill, Burton-Opitz, Stewart, Halliburton, Howell.

Reference books: Luciani, *Human Physiology*; Macleod, *Physiology and Biochemistry in Modern Medicine*; Wiggers, *The Circulation in Health and Disease*; Sherrington, *The Integrative Action of the Nervous System*; Gaskell, *The Involuntary Nervous System*; Starling, *Human Physiology*.

### Pharmacology

#### Junior Course.

1. 3 hrs. lab.

A practical course in pharmacology for dental students.

This course is coordinated with and runs concurrently with Materia Medica 4, a lecture course on materia medica and pharmacy for dental students.

#### Senior Course.

.51. 2 hrs. lect., 3 hrs. lab.

This course consists of a systematic series of lectures and demonstrations on the physiological action of drugs, together with coordinated practical work in the laboratory during which the student observes and records the action of the important drugs.

Text-books: Sollman, Jackson, Bastedo.

Reference book: Cushny, *Pharmacology and Therapeutics*.

### Research

The laboratory is always open to those who are qualified to undertake investigations in the domain of physiology and pharmacology. For particulars apply to the head of the department.



UNIVERSITY OF ALBERTA

DEPARTMENT OF POLITICAL ECONOMY

Professor MacGibbon and Assistant Professor McGoun.

Junior Courses.

1. **Principles of Economics.** 3 hrs.  
A general introduction to the study of Political Economy. In this course there will be two lectures a week and the class will be divided into quiz groups for the third hour.  
Text-books: Gide, *Political Economy*; Smart, *An Introduction to the Theory of Value*. Assigned readings.
2. **Elements of Political Economy.** 2 hrs. first half.  
A brief introductory course open only to students registered in the Faculty of Agriculture.  
Text-books: Clay, *Economics for the General Reader*.
10. **Economic Geography.** 2 hrs sec. half.  
A study of production and trade as influenced by geographic conditions. The geography of the more important commercial products; continental and oceanic trade routes; great commercial centres.

Senior Courses.

62. **Elements of Political Economy.** 2 hrs first half.  
Same subject matter as P. E. 2. Open only to students in Applied Science.
63. **Political Science.** 3 hrs.  
The origin, nature, function, and organization of the state.
64. **Trade and Transportation.** 3 hrs.  
International trade, economic protectionism, international commercial policies, tariffs, transportation as a factor in international trade. (Not given 1922-23.)
65. **Labor and Industrial Problems.** 3 hrs.  
The genesis of labor problems, the wage system, labor legislation, unemployment, agencies of industrial peace, scientific management, unionism, syndicalism. (Not given 1922-23.)

## POLITICAL ECONOMY

- 66. Currency, Banking and Finance.** 3 hrs.  
The principles of money, monetary systems, commercial and investment banking, corporation finance.
- 67. Public Finance and Taxation.** 3 hrs.  
Public expenditures, budgets and budgetary legislation, public domains and public industries, taxation, public credit, provincial and local taxation.
- 68. Problems in Labor Management.** 2 hrs sec. half.  
Labor maintenance, scientific management, welfare institutions, strikes, methods of industrial peace, labor legislation, unionism.  
Prerequisite: Course 62.
- 69. Corporation Finance.** 1 hr sec. half.  
The nature of corporations, their promotion, capitalization, financing, reorganization; holding companies; franchises; the taxation of corporations, business law.  
Prerequisite: Course 62. (Not given 1922-23.)
- 70. An Introduction to Agricultural Economics.** 2 hrs sec. half.  
Special emphasis upon the problems of rural credits, marketing, co-operative organization and tenancy.  
Prerequisite: Course 2.
- 71. Municipal Finance and Taxation.** 3 hrs, first half.  
A study of municipal finance, including public utilities, franchise agreements, taxation.  
Prerequisite: Course 62.

### Honours Courses.

- 101. History of Economic Theory.** 3 hrs.  
From the Mercantilists to the end of the 19th century.  
(Not given 1922-23.)
- 102. Modern Economic Theories.** 3 hrs.  
A critical examination of modern economic thought.



UNIVERSITY OF ALBERTA

DEPARTMENT OF SOILS

Dr. Wyatt.

**Junior Courses.**

**1. Soil Physics and Management.**

2 hrs lect., 4 hrs lab. first half.

Origin of soil material; formation; classification; constituents, organic matter; moisture and its control; aeration; temperature; erosion; tillage of dry and irrigated lands; rotations.

Text-book: *Soil Physics and Management*, Moshier and Gustafson.

**2. Soil Fertility and Fertilizers.**

2 hrs lect., 4 hrs lab. sec. half.

Yields as affected by fertility, rotations and different systems of farming; composition and management of Canadian soils; composition and value of manures and fertilizers.

Text-book: *Soil Fertility and Permanent Agriculture*, Hopkins.

**Senior Courses.**

**53. Advanced Fertility.** 2 hrs lect., 4 hrs lab. first half.

Special work with soils in which the student is interested; pot culture experiments; systematic study of investigational work from various experiment stations.

**54. Soil Bacteriology.** 2 hrs lect., 3 hrs lab. sec. half.

Soil micro-organisms and factors influencing their activity; decomposition of crop residues and manures; nitrogen fixation and preservation; effect on insoluble plant foods.

**55. Irrigation and Drainage.** 2 hrs lect. sec. half.

Character of water used for irrigation; time and amount of application; measurement and distribution; duty; removal of excess; control of alkali.

## TOXICOLOGY

### DEPARTMENT OF SURGERY

Prof. Mewburn, Dr. Gray, Dr. Wilson, Dr. Munroe, Dr. Hepburn, Dr. Conn, and Dr. Blais.

#### Senior Course.

51. **Surgery.** 1 hr. lect., 2 hrs. clin.  
Principles of surgery; clinical instruction in inflammatory processes, sepsis, haemorrhage, hernia, surgical landmarks, history taking, wounds, fractures, bandaging.

## TOXICOLOGY

Professor Gaetz and Assistant Professor Dunn.

#### Junior Course.

1. **General.** 1 hr first half.  
The nature and properties of poisons, their detection, and the application of "first aid" treatment.

#### Senior Course.

61. **General.** 1 hr. first half.  
Identical with Course 1.

### DEPARTMENT OF VETERINARY SCIENCE

Dr. Talbot (special Lecturer).

#### Junior Courses.

1. (a) **Elementary Agricultural Veterinary Science.** 1 hr. lect.  
Anatomy, physiology, materia medica.  
(b) **Agricultural Veterinary Science.** 1 hr. lect.  
Medicine and surgery parasitology, obstetrics.

#### Senior Course.

51. **Advanced Agricultural Veterinary Science.**



UNIVERSITY OF ALBERTA

DEPARTMENT OF ZOOLOGY

Associate Professor Rowan.

**Junior Course.**

**1. General Elementary Zoology (Arts)**

3 hrs. lect., 3 hrs. lab.

Vertebrate and invertebrate types; histology; heredity, variation and evolution.

Text-books: *Zoology*, Shipley and MacBride; *Practical Zoology*, Marshall & Hurst.

**2. General Elementary Zoology (Medicine).**

3 hrs. lect., 3 hrs. lab.

Frog and other types; protozoa; histology; heredity, variation and evolution; mammalian skull, brain and heart.

*An Introduction to Zoology*, O'Donoghue.

**3. Elementary Embryology (Second Year Medicine).**

2 hrs. lect., 3 hrs. lab. first half.

Embryology of the frog, and chick to 48 hours; other selected types.

Text-book: *A Text Book of Embryology*, Prentiss & Ayer.

DEPARTMENT OF PHYSICAL EDUCATION

.....  
Director  
.....

Assistant Director.

The aim of the department is to contribute to health, organic vigour, and good physical habits, by providing an opportunity for every student to secure, under proper regulations, sufficient exercise as a balance to the sedentary demands of university life, and to conserve the social and moral values of athletic games and sports. Work in this department is compulsory upon all students of the first and second years. At the beginning of each session there is a physical and medical examination of all students of these two years.

## CANADIAN OFFICERS TRAINING CORPS

Further, all candidates for teams in athletic sports must submit to a medical examination to determine their physical fitness to engage in such sports. The examination for men is conducted by the Director of Physical Education and the Director of Medical Services of the University, and the examination for women by the Assistant Director and the Director of Medical Services of the University. No other certificates are accepted.

**Course 1. First Year.** 3 hrs.

Physical and medical examination; instruction and recreation to meet the physical requirements of the student at the beginning of the university course; exercise and practice in the fundamentals of athletic games, mass athletics, gymnasium class work.

**Course 2. Second Year.** 3 hrs.

Physical and medical examination; instruction and practice based on the work of Course 1, but of a more advanced nature.

Considerable latitude is allowed each student in choosing the form of exercise to be taken, the main factors governing the selection being: suitability of the exercise, physical condition of the individual, effective supervision, and regular participation. The Department, governed by the result of the physical and medical examination, reserves the right to veto the student's choice.

## CANADIAN OFFICERS TRAINING CORPS

### University of Alberta Contingent

The Canadian Officers Training Corps consists of Contingents at most of the Canadian Universities. Each Contingent is a unit of the Active Militia, being governed by special regulations under which it cannot be called out for active service as a unit. The Contingent is not officially a part of the University but the President of the Military Committee and the senior officers of the Corps must be members of the University staff.

The Corps provides an opportunity for those students who are interested in military training to qualify as officers during their University course. Two Certificates of Proficiency, "A" and "B" are obtainable by members of the Corps. The standard required for Certificate "A" is that of



## UNIVERSITY OF ALBERTA

the commander of a platoon in an infantry company. To obtain this certificate, a member must complete two years efficient service in the Corps and pass the prescribed examinations. Members who accept a commission in the Active Militia are exempted by this certificate from further examination for the rank of Lieutenant. Certificate "A" is prerequisite to Certificate "B" which in a similar manner qualifies for the rank of Captain.

The time required is about two hours per week. Enlistment is purely voluntary, but the membership of the Contingent is limited.

### DEPARTMENT OF EXTENSION

Director, Albert Edward Ottewell, M.A.

Secretary of the Department, Edward Annand Corbett, M.A.

Extension Librarian, Jessie Fleming Montgomery, B.A.

Lecturer, Harald S. Paton, M.A.

This department is organized to help those unable to attend regular university classes, and carries on work along the following lines:

#### Extension Lectures.

A limited number of extension lectures on various subjects may be arranged in conference with the Director of the Department of Extension.

#### Division of Debating and Public Discussion.

Outlines are published for the assistance of debaters and material on subjects of debates is lent by the University. This material is available to all residents of Alberta free of charge. To applicants from points outside of the Province a charge of fifty cents is made for each package lent.

Material for debate has been prepared on the following subjects: Canadian Navy; Capital Punishment; Closed versus Open Shop; Co-education; Commission Government of Cities; Compulsory Military Service in Canada; Compulsory Military Training in Canada; Compulsory Social Insur-



## DEPARTMENT OF EXTENSION

ance; Consolidated Rural Schools; Co-operative Banking; Co-operative Trading; Direct Legislation; Educational Qualification for Suffrage; Gary School Plan; Government Ownership of Railroads; Heredity versus Environment; Home Rule for Ireland; Imperial Federation; League of Nations; Literary Test for Immigrants; Military Training in Schools; Minimum Wage; Monroe Doctrine; Mothers' Pensions; Motion Pictures in Education, Place of; Municipal Ownership of Public Utilities; Oriental Immigration; Parliamentary versus Presidential Form of Government; Peace versus War; Platform versus Press; Prohibition; Proportional Representation; Protection versus Free Trade; Public Defender; Reciprocity with the United States; Rural versus City Life; Simplified Spelling; Single Tax; Socialism; Tractor versus Horse; Trade Unions; Woman Suffrage; Canadian Tariff; School Curriculum; Limitation of Inheritance.

The Department has also in course of preparation debating material on the following subjects: National System of Education; Control of Natural Resources; Equal Pay for Equal Work; Trial by Jury; Suspension of Immigration into Canada for Five Years, except British Subjects and Citizens of the United States.

In addition, material has been provided on a large number of other subjects. A manual of instruction for debaters is also available.

In connection with this division a High School Debating League is organized year by year. Each year a large number of the high schools of the province has entered the league.

### **Division of Travelling Libraries.**

Travelling libraries are lent to communities where no public libraries exist. For this purpose over 10,000 volumes are at present available. During the present session two hundred and thirty-five libraries have been in circulation. A special feature of this service is the open shelf list from which students may borrow individual volumes. A printed catalogue is supplied to would-be borrowers for twenty-five cents.

The Department also offers assistance to those who wish to do systematic reading in a particular field, literature, science, history, politics, sociology, etc. With the help of members of the University Faculty outlines on the desired subject will be prepared and reference books will be furnished from the open shelf library.



## UNIVERSITY OF ALBERTA

### Division of Visual Instruction.

This division consists of:

**A. Lantern Slide Service.** The department has a lantern slide library of over two hundred sets of lantern slides, to which additions are continually made, accompanied by printed or typewritten lectures, as well as over one thousand miscellaneous slides. Payment of express charges and the making good of loss or breakage is the only expense for this service. A list of lantern slide sets may be had on application.

**B. Moving Picture Service.** The system of moving pictures adopted and recommended by the Department of Extension is the Safety Standard, utilizing a practically non-inflammable film, and consequently free from insurance and other restrictions. Machines can be purchased from the Department at the lowest possible price. The Pathoscope is for use in small rooms and is equipped with a generator turned by hand. The Victor Safety Cinema operates successfully in larger halls up to 100 feet from the screen. It can be furnished for use, on 110 volt circuit, with Delco or other low voltage plant, or with twelve volt storage battery. Except in the latter case, motor drive is available. Film service is provided on a rental basis sufficient to take care of handling and depreciation, particulars of which will be furnished on request.

Any further information will be furnished upon application to, The Department of Extension, University of Alberta, Edmonton, Alberta.

### INDUSTRIAL LABORATORIES

James Alexander Kelso, M.Sc. (Queen's),  
Director.

Arthur Galbraith Scroggie, B.Sc. (Alberta),  
Assistant.

The Department of Industrial Laboratories operate fully equipped Chemical, Physical, Assay, Coal, Cement and Concrete Laboratories, etc., for the carrying out of all tests on materials. Investigations for the industries and for the development of the natural resources can be undertaken.

For complete information and schedule of fees apply to the Director.

## CORRESPONDENCE COURSES

### DEPARTMENT OF CORRESPONDENCE COURSES

Duncan Stewart MacKenzie, Director of Teachers' Courses.

Janet M. McBratney, Instructor in English and Languages.

Annie Norrington, B.Sc. (Manitoba), Instructor in Science and History.

Mrs. E. T. Mitchell, M.Sc., Instructor in Mathematics.

The Correspondence Department offers instruction in the work of Grade XII as laid down by the Provincial Department of Education. The object of the work is to encourage teachers who hold the Second Class certificate to pursue further academic study in preparation for the Grade XII examination. The successful completion of the Grade XII course while giving the required academic standing for First Class certificate, will also give standing pro tanto for first year University courses.

Teachers who contemplate a University course and who have not taken languages in the earlier High School grades should first attend at least one Summer Session and devote their whole time to such languages.

The Laboratory instruction given in Physics and Chemistry during the Summer Session will also be found exceedingly helpful, if not even essential, to those desirous of completing one or both of these subjects through correspondence tuition.



# Affiliated Colleges

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## ALBERTA COLLEGE SOUTH

### Theological College of the Methodist Church.

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#### Government.

The management and direction of Alberta College are vested in a Board of Governors appointed every four years by the General Conference of the Methodist Church and incorporated by Act of Parliament.

The officers of the Board are:

Chairman—H. R. Smith, M.D.

Secretary—C. E. Race, B.A., C.A.

Treasurer—W. T. Henry, Esq.

Executive Committee—H. R. Smith, M.D.; C. E. Race, B.A., C.A.; W. T. Henry; Rev. A. R. Aldridge, B.A.; C. G. Corneille, B.A.; Rev. T. C. Buchanan, D.D.; H. H. Crawford, M.L.A.; A. T. Cushing, B.A.; J. F. Fowler; Rev. F. S. McCall, B.A.; C. F. Newell, K.C.; James Ramsey, M.L.A.; Rev. R. L. McTavish; Rev. A. S. Tuttle, M.A., D.D.

#### Faculty.

Rev. A. S. Tuttle, M.A., D.D. (Mt. Allison),

*Principal, Professor of Philosophy of Religion.*

Rev. A. D. Miller, M.A. (Toronto), B.D. (Victoria),

*Professor of Old Testament Languages and Literature.*

Rev. Cloy Jackson, M.A. (Toronto), B.D. (Victoria),

*Professor of New Testament Literature.*

Miss Nettie Burkholder, B.A. (Victoria),

*Lady Principal, Lecturer in Sciences.*

Rev. S. R. Laycock, B.A. (Toronto), M.A., B.D. (Alberta),

*Lecturer in Classics, and Religious Education.*

Mr. William Line, B.Sc. (Mt. Allison) M.A. (Alberta),

*Lecturer in French and English.*

Mr. Thomas Hart, B.Sc. (Alberta),

*Lecturer in Mathematics.*

Miss Elizabeth Elderkin, B.L.I.,

*Lecturer in Elocution and Oratory.*

Mr. Herbert Lawrence,

*Registrar.*

## AFFILIATED COLLEGES

### Courses of Study.

Preparatory. Thorough courses of instruction are given in all subjects leading to matriculation into the University of Alberta, and to the Departmental Examinations in Grades X and XI, for teachers. These studies are also required for entrance upon the study of Theology.

Theological. (a) Ordinary: A three-year course of study in Theological branches including certain required and optional subjects in Arts in the University of Alberta. The Diploma of the College is conferred upon the completion of this course.

(b) Graduates': A more exacting course designed for those who have completed an Arts course before entering upon the study of Theology.

(c) Degree Course: Additional studies leading to the Degree of Bachelor of Divinity, conferred by the University of Alberta.

(d) A special one-year's course for Christian workers.

All Theological courses in Alberta College are open to students of other denominations with no discrimination.

### Residence.

The College has one of the best residence buildings in Canada, capable of housing about 125 students, located on University grounds in a most fortunate relation to the University community.

During the last two years there has been a large increase in the number of students in the matriculation department. This department offers an especially good opportunity to those who must make up one or two subjects to gain full matriculation, as these may be carried in addition to University subjects, and thus time saved.

## ROBERTSON COLLEGE.

### Theological College of the Presbyterian Church.

This college was placed by action of the General Assembly of 1910 in connection with the Provincial University. The name, "Robertson College", was decided upon October 10th, 1911, to perpetuate the memory of the pioneer missionary Superintendent of Western Canada, the Rev. James Robertson, D.D.



## UNIVERSITY OF ALBERTA

### Government.

The management and direction of Robertson College are vested in a Board of Management and Senate, appointed annually by the General Assembly, of which the following are the officers:

#### Board of Management.

Chairman—William Short, K.C., Edmonton.

Vice-Chairman—R. J. Hutchings, Esq., Calgary.

Secretary—Rev. W. M. Grant, M.A., Edmonton.

Treasurer—A. F. Ewing, Esq., B.A., K.C. M.L.A.,  
Edmonton.

#### Senate.

Chairman—Principal J. M. Millar, D.D.

Faculty for 1922-23.

Rev. J. M. Millar, M.A., B.D., D.D.,  
*Principal,*

*Professor of English Bible and Religious Education.*

Rev. A. T. Barnard, M.A., B.D.,  
*Head of Extra-Mural Department; Lecturer in Church History.*

.....  
*Professor of Systematic Theology.*

And the following professors of Alberta College:

Rev. A. S. Tuttle, M.A., D.D.,  
*Philosophy of Religion.*

Rev. Cloy Jackson, M.A.,  
*Professor of New Testament Literature.*

Rev. A. D. Miller, M.A., B.D.,  
*Professor of Old Testament Literature.*

Rev. S. R. Laycock, M.A., B.D.  
*Department of Religious Education.*

## AFFILIATED COLLEGES

### **Course in Theology.**

The ordinary curriculum of study for the ministry of the Presbyterian Church demands the B.A. Degree (including Greek and Hebrew), and three years in Theology. Course No. 2 calls for three years in Arts as the preliminary to Theology. Any other course is "Special" and can be assigned by the authority of the General Assembly only.

### **Co-operation in Instruction.**

The plan of co-operation in instruction is carried on by Robertson and Alberta Colleges with very gratifying results.

### **Courses for the Degree of B. D.**

The degree of B.D. is granted by the University. The courses are given in the affiliated theological colleges and approved by the University. For information as to subjects of study, text-books, fees, etc., apply to Mr. C. E. Race, B.A., C.A., Registrar of the University.

### **The Degree of D.D.**

The degree of Doctor of Divinity is conferred "honoris causa".

### **Extra-Mural Department.**

During the session 1921-22 six non-resident students were registered in this department. Information about the various courses will be sent upon application to Professor A. T. Barnard. The courses are arranged to suit the needs of men who cannot attend college, and students receive individual attention.

### **Library.**

The library contains 4,000 volumes and is available for students, missionaries, missionary societies and ministers.

### **Residences.**

Robertson College occupies at present a residential block in Edmonton South, 11032 Whyte Ave., purchased by the Board of Management and furnished by the efforts of the Women's Guild. Application for rooms for the session of 1922-23 should be made at once to Principal J. M. Millar, who should also be communicated with by those desiring calendars containing complete information about Robertson College.

During the session 1921-22 the number of students registered was fifteen. Six men graduated in Theology at the Spring Convocation of 1922.



## UNIVERSITY OF ALBERTA

### ST. AIDAN'S COLLEGE.

This college, operating under the authority of the Synod of the Anglican Diocese of Edmonton, was affiliated with the Provincial University, by resolution of the Senate, May 15, 1919.

Information regarding courses may be obtained on application to the Warden, the Right Reverend Henry Allen Gray, M.A., D.D., LL.D., Bishop of Edmonton.

### AFFILIATED PREPARATORY SCHOOLS.

Under the regulations of the Senate, preparatory schools and colleges which send students to the University Matriculation Examinations are affiliated with the University.

Under this arrangement the following are affiliated institutions:

Western Canada College, Calgary.

Alberta College, Edmonton.

Mount Royal College, Calgary.

The University School, Calgary.

Alberta College (North), Edmonton.

Llanarthney School for Girls, Edmonton.

# Register of Students

SESSION 1921-22

A—Faculty of Arts and Sciences; Ag—Faculty of Agriculture; S—Faculty of Applied Sciences; Arch—Architecture; Corr—Correspondence, Grade XII; D—Divinity; H.Ec—Household Economics; L—Faculty of Law; M—Faculty of Medicine; PhmL—Licentiate Course, Pharmacy; PhmL 1-yr—One Year Licentiate Course, Pharmacy; PhmD—Degree course, Pharmacy; Dent—Dentistry; SS—Summer School; PHN—Course in Public Health for Nurses.

c—conditioned student; p—partial student; sp—special student; grad—graduate student. The numbers refer to the year.

Abbott, A. H. ....	SS	Banks, Mrs. H. M. ....	p A 2
Adam, J. D. ....	A L 4	Banks, B. W. ....	c A M 1
Addinell, W. E. ....	Dent 1	Barclay, F. W. ....	c A L 1
Agnew, A. M. ....	M 2	Bard, H. H. ....	Ag 1
Agnew, T. J. ....	c M 1	Bard, Miss G. ....	H.Ec 2
Ahenakew, E. ....	M 3	Barker, A. S. ....	c A 1
Ainlay, H. D. ....	p A 3	Barker, Miss L. ....	c A 3
Aldridge, A. A. ....	Corr	Barnecut, R. ....	S 3
Aldridge, H. C. ....	Corr	Barnecut, J. F. ....	A 2
Alexander, N. E. ....	M 3	Barnes, Miss V. F. ....	SS & Corr
Alfred, Victor ....	L 3	Basarab, J. E. ....	L 4
Allan, D. H. ....	A 3	Baxter, Miss R. C. D. ....	Corr
Allan, W. S. ....	c M 1	Bayfield, E. G. ....	Ag 2
Allen, E. ....	sp A 1	Beach, J. E. ....	A 1
Allen, G. H. ....	L 3	Bean, Miss B. ....	PHN
Allison, H. K. ....	c A 1	Becker, C. ....	L 3
Allison, W. S. ....	p M 1	Becker, Miss R. ....	c PhmD 2
Allum, Miss D. M. ....	c A 1	Begg, H. N. C. ....	c M 1
Allwork, C. T. ....	A 4	Bell, Miss E. P. ....	p A 2
Anderson, E. H. ....	Grad	Bennett, Miss M. ....	phmD 3
Anderson, Miss B. ....	SS	Beny, Miss H. ....	A 2
Anderson, R. T. ....	M 2	Bercov, A. ....	L 2
Anderson, W. A. ....	Ag 1	Bercov, H. A. ....	M 3
Andrews, Miss E. E. ....	A 2	Bersagel, K. ....	Grad
Archibald, Miss M. C. ....	A 4	Berman, D. ....	M 3
Armstrong, J. H. ....	c A 1	Bevan, H. J. ....	sp A 2
Armstrong, W. S. S. ....	M 3	Beveridge, Miss B. ....	A 4
Armstrong, Miss H. St. C. ....	H.Ec 3	Bickell, Miss J. C. ....	A 3
Arnston, J. W. ....	Corr	Biraud, F. P. ....	Ag 2
Ashby, P. T. H. ....	Ag 2	Bird, O. M. ....	p M 1
Atkins, Miss M. L. ....	H.Ec 1	Black, Miss L. Y. ....	A L 4
Atkinson, N. H. ....	S 4	Blackett, C. R. ....	c A 1
Auld, J. T. ....	SS	Blackmore, J. H. ....	Grad
Backman, W. S. ....	Ag 1	Blain, L. K. ....	L 2
Bagnall, F. W. ....	L 1	Blair, W. M. ....	Dent 1
Bain, Miss A. R. ....	Corr	Bloor, W. S. K. ....	A 1
Bainbridge, J. W. ....	Grad	Blow, Miss M. I. ....	c A 1
Bainbridge, S. ....	D	Bocock, J. B. ....	c A L 1
Baker, A. G. ....	L 3	Boileau, A. F. ....	L 1
Baker, H. M. ....	A 1	Bosomworth, H. ....	Grad
Baker, R. I. ....	A 2	Botsford, Miss N. ....	sp A 1
Baker, R. M. ....	A 2	Bourcier, A. V. ....	SS
Baker, W. E. ....	M 3	Bowles, N. G. ....	sp A 1
Baldwin, A. V. ....	S 1	Bowman, M. W. ....	Dent 1
Baldwin, A. V. ....	c M 1	Bowstead, Mrs. A. D. ....	sp A 1
Baldwin, E. C. ....	Corr	Boyd, H. R. C. ....	A 1
Ballantyne, Miss J. M. ....	A 3	Boyle, H. A. ....	M 3
Baltzan, H. L. ....	c A 3	Bradford, A. C. ....	A M 2
Banks, C. W. ....	M 3	Bradford, Miss M. ....	A 3
		Bramley-Moore, A. G. ....	A L 3



# UNIVERSITY OF ALBERTA

Bramley-Moore, Miss L. ....	A 2	Clark, Miss C. K. ....	A 2
Brayton, M. J. ....	M 3	Clarke, A. E. ....	A Ag 2
Bright, A. H. ....	A L 1	Clarke, T. ....	A L 2
Broadus, K. H. ....	A 4	Clarke, Miss M. E. ....	c A 1
Brown, Mrs. E. M. ....	sp A 1	Clarke, P. D. ....	c L 1
Brown, G. H. ....	Dent 1	Clarke, R. P. ....	L 2
Brown, James ....	A L 3	Clarry, E. T. ....	c A L 1
Brown, J. M. ....	Corr	Claxton, J. F. ....	PhmL 1
Brown, Miss L. B. ....	Corr	Clayton, G. A. ....	p A 1
Brown, P. S. ....	M 3	Clements, W. J. ....	PhmD 2
Brown, W. R. ....	Ag 2	Cobb, Miss L. ....	Grad
Brownlee, Miss E. ....	A 3	Cohen, B. ....	PhmL 1
Brunton, J. F. ....	M 1	Collinge, T. W. ....	c L 3
Brushett, W. ....	c A 1	Collins, Sr. G. E. ....	SS & Corr
Bryan, W. C. ....	PhmL 1-yr	Collver, H. B. ....	Corr
Bryan, G. J. ....	A L 3	Colpman, C. C. ....	PhmL 1
Bryan, Miss H. A. ....	A 4	Conquest, G. R. ....	c A Ag 1
Bryden, R. B. ....	S 4	Conquest, Miss G. M. ....	A 1
Bryden-Jack, E. E. ....	Dent 2	Conrod, J. T. ....	Dent 2
Buchanan, Miss M. ....	p A 3	Cooke, Miss A. R. ....	Corr
Buckley, Miss N. ....	A 2	Cook, Miss J. McL. ....	A 2
Buckley, Miss B. G. ....	c A 1	Cooke, J. E. ....	PhmL 1
Bunyan, Miss I. ....	Corr	Coons, K. ....	Dent 2
Bures, A. J. ....	A 2	Copeland, E. R. P. ....	PhmD 4
Burgess, W. D. ....	S 3	Cormack, Miss C. G. ....	c A 1
Burgess, Miss A. M. ....	M 2	Cory, Miss I. L. ....	c A 1
Burgess, Miss M. H. ....	Corr	Cousins, F. C. ....	A L 4
Bussard, Miss L. A. ....	Corr	Cowan, Miss K. S. ....	A 4
Buster, Miss L. H. ....	c A 2	Cox, A. K. ....	S 2
Butchart, H. T. ....	S 4	Cram, R. ....	SS
Butchart, E. A. ....	A L 2	Crawford, A. M. ....	M 3
Butchart, Miss T. V. ....	A 4	Crawford, D. J. M. ....	M 2
Cain, Miss A. R. ....	A 4	Crawford, G. M. ....	PhmL 1
Cain, Miss P. U. ....	A 4	Crawford, W. A. ....	M 2
Cairns, A. ....	Ag 2	Crawford, H. W. ....	A M 2
Cairns, J. M. ....	A L 1	Crawford, Miss M. R. ....	Grad
Calder, J. ....	Corr	Croisetiere, J. A. ....	PhmL 1
Caldwell, Miss O. J. ....	A 2	Crooks, G. C. ....	PhmL 2
Caley, J. F. ....	c A 1	Crosby, Miss R. L. M. ....	SS
Cameron, D. M. ....	L 1	Cross, E. E. ....	A L 2
Cameron, G. ....	PhmL 1	Cross, J. S. ....	Ag 2
Cameron, R. A. ....	A L 4	Curley, J. W. ....	Grad
Campbell, C. S. ....	A L 2	Currie, D. ....	c M 1
Campbell, E. A. ....	M 2	Curtin, Miss F. B. ....	p A 3
Campbell, J. B. P. ....	Corr	Curtin, Miss G. ....	L 3
Campbell, W. P. ....	A 3	Cutler, H. E. ....	L 2
Capling, Miss E. M. ....	p A 1	Daggett, Miss M. W. ....	c A 1
Carlyle, T. J. ....	c Dent 1	Dahl, P. L. ....	Ag 1
Carmichael, Miss B. ....	H.Ec 3	Dain, E. W. ....	A 2 & SS
Carrigan, T. J. ....	PhmL 1	Daly, C. O. ....	Corr
Carruthers, W. C. ....	Dent 2	Davies, J. H. ....	L 3
Carter, V. E. ....	PhmL 2	Davies, P. G. ....	c A 1
Carter, R. D. ....	A 1	Davies, C. E. ....	c M 1
Cartwright, H. D. ....	Grad	Davis, Miss G. M. ....	c A 1
Cassels, J. M. ....	A 2	Davis, E. N. ....	A L 4
Cassels, W. H. ....	M 2	Davis, Miss M. T. ....	Corr
Castor, Miss J. I. ....	A 1	Dawson, G. S. ....	c S 3
Caswell, Miss E. ....	M 2	Dawson, H. R. ....	L 4
Cayford, E. ....	M 2	Dawson, P. ....	p A 1
Chadsey, L. C. ....	M 3	Deeprose, W. A. ....	Corr
Chalmers, Miss H. H. ....	A 3	DeMille, W. E. ....	c L 1
Chapman, R. ....	SS & Corr	Deming, E. C. ....	sp A 2
Chappell, G. T. ....	M 1	De Savoye, L. A. ....	A 1
Charlesworth, Miss D. C. ....	A 2	DeSilva, Miss H. B. ....	p A 2
Charlesworth, G. S. ....	A M 4	Devereaux, Miss H. A. ....	c A 1
Chisholm, W. S. ....	M 1	Dewey, L. H. ....	c A 1
Christoph, N. S. ....	L 2	Dickins, F. C. ....	L 3
Christenson, C. P. ....	PhmL 2	Dier, H. H. ....	M 3
Christie, H. R. ....	Corr & c A M 2	Diller, Miss D. ....	A 4
Christie, Miss C. ....	M 3	Dingle, D. W. L. ....	c A 1
Christie, Miss P. C. ....	M 2	Dixon, Miss M. M. ....	Corr
Churchill, E. L. ....	A 3	Dixon, Mrs. I. A. ....	A 3



# STUDENTS

Dobry, Miss A. C. ....	L 2
Dobry, J. J. ....	c M 1
Dobson, H. E. ....	Grad
Donald, Miss V. E. ....	A 1
Donaldson, A. ....	S 4
Donaldson, Miss E. ....	p A 1
Dorrance, F. S. ....	M 3
Doughty, J. L. ....	Grad
Douglas, W. S. ....	sp A 2
Douglas, R. G. ....	M 3
Douglass, W. R. ....	sp PhmL 1
Dowding, Miss S. ....	A 3
Dowler, H. A. ....	Dent 2
Dowling, H. E. ....	M 3
Doyle, J. E. ....	c A S 1
Drader, Miss N. B. ....	c A 3
Dragan, G. E. ....	M 2
Drake, W. V. ....	A 4
Draper, Miss J. E. ....	p A 2
Driscoll, Miss A. ....	A 2
Driscoll, R. J. ....	c L 1
Druitt, C. J. ....	sp A 1
Duce, M. E. ....	c M 1
Duclos, Miss G. ....	A 3
Duff, Miss S. M. G. ....	L 2
Duggan, K. P. ....	A 2
Duke, Miss M. R. ....	SS
Duncan, J. E. ....	p S 3
Eadie, W. W. ....	M 3
Eamer, G. D. D. ....	M 1
Eaton, Miss L. E. ....	Corr
Eberly, Miss J. M. ....	c A 1
Eby, Miss G. S. ....	Corr
Edgar, J. ....	D
Edlund, A. E. ....	PhmL 2
Edmonds, D. L. ....	A 2
Edwards, H. E. ....	PhmL 2
Edwards, C. G. ....	A S 3
Edwards, Miss H. S. ....	Grad
Edwards, J. E. ....	L 3
Edwards, W. H. ....	SS
Edworthy, S. ....	A 4
Egan, S. ....	M 1
Einarson, G. ....	Corr
Elder, A. H. ....	M 2
Elford, Miss A. E. ....	Corr
Elliott, R. H. ....	Ag 2
Elick, A. G. ....	c A 1
Emery, H. T. ....	L 3
English, J. F. K. ....	A 4
English, J. H. F. ....	A 1
English, Miss M. E. ....	H.Ec 2
Ethridge, F. M. ....	S 2
Eubank, Miss E. M. ....	A 2
Evans, Mrs. A. E. ....	Grad
Evans, Miss E. L. ....	A 2
Evans, H. ....	SS & Corr
Evans, R. W. ....	A 4
Ewing, Miss M. C. ....	Corr
Fairfield, Miss A. ....	H.Ec 2
Falconer, R. L. ....	Dent 1
Fane, F. J. W. ....	M 2
Fanjoy, W. T. ....	S 2
Ferguson, F. H. ....	S 2
Fergusson, Miss L. M. ....	A 2
Ferris, Miss L. F. ....	Corr
Fetherston, E. ....	sp M
Fetherstonhaugh, E. ....	Ag 1
Fetter, R. E. ....	A S 4
Ficht, J. P. ....	Ag 1
Fife, J. K. ....	M 3
Fisher, F. S. ....	S 2

Fisher, H. ....	A 4
Fisher, Miss H. M. ....	L 4
Fitzgerald, Miss V. R. ....	SS
Flack, C. R. ....	A 1
Flater, N. F. ....	M 1
Fleming, W. S. ....	Grad
Fleming, Miss F. M. ....	c A 1
Fletcher, H. T. ....	c A Ag 1
Fletcher, T. ....	A 1
Flett, Miss L. M. ....	p A 1
Ford, F. A. ....	A L 4
Foerster, E. ....	SS & Corr
Forester, Miss E. ....	Grad
Fortier, Sr. A. ....	SS
Foster, L. H. H. ....	Ag 1
Frame, W. E. ....	A 4
Fraser, A. A. ....	S 2
Fraser, B. K. ....	Corr
Fraser, Miss I. B. ....	A 3
Fryer, J. R. ....	Grad
Fulmer, F. D. ....	M 3
Fuog, Miss A. H. ....	Grad
Gaetz, J. R. ....	Ag 3
Gaetz, H. B. ....	PhmL 2
Gaetz, T. H. ....	M 3
Garbutt, Miss A. E. ....	PhmD 3
Garden, J. H. ....	D
Gardiner, A. J. M. ....	Corr
Gardiner, Miss B. D. ....	Grad
Gardiner, E. W. ....	A 4
Garrison, Miss D. ....	A 4
Garrison, Miss F. ....	Corr
Gaudin, F. H. A. ....	c M 1
Gazley, Miss B. C. ....	A 1
Geddes, Miss H. ....	A 3
Geeson, J. R. ....	Grad
Gerrie, Miss C. ....	A 3
Gerrie, J. W. ....	c A M 2 & Corr
Gibson, Miss L. G. ....	p A 1
Giffen, A. D. ....	S 4
Giffen, A. W. ....	A M 1
Giberson, Miss L. G. ....	c M 1
Gibson, A. B. ....	L 4
Gilbert, D. L. ....	Ag 1
Gillen, S. ....	sp M 1
Girvan, R. ....	c A 1
Glen, H. D. S. ....	S 3
Glenn, J. S. ....	M 3
Glover, R. M. ....	A L 3
Gold, Miss M. H. ....	Grad
Goldstein, G. R. ....	M 3
Good, R. A. ....	Corr
Good, L. ....	A 4
Gordon, C. L. ....	A 4
Gorelick, E. ....	M 3
Gorrill, J. F. ....	Corr
Goshko, D. ....	Corr
Gould, W. W. ....	p A 1
Gourley, Miss I. ....	Corr
Gowan, E. H. ....	A S 3
Graburn, W. M. ....	L 2
Graham, Miss M. K. ....	sp A 3
Grant, E. G. ....	PhmL 2
Gratz, Miss M. M. ....	A 2
Gray, H. E. ....	A Ag
Green, E. E. ....	SS 1
Greene, Miss Eileen ....	A 1
Greenberg, C. C. ....	c M 1
Greer, Miss E. S. ....	PhmD 2
Griggs, Miss A. V. ....	A 1
Grimmett, Miss K. E. ....	M 3
Grimson, J. C. ....	M 3



# UNIVERSITY OF ALBERTA

Crindley, F. L. .... A & S 2  
 Grindley, T. W. .... A & Ag 3  
 Gudgeon, F. H. .... A & L 3  
 Godmundson, A. E. .... Corr  
 Habgood, F. T. .... sp A 3  
 Haig, A. A. .... M 2  
 Haig, W. R. .... M 2  
 Haight, J. L. .... p A 2  
 Halabisky, N. D. .... M 2  
 Hall, W. E. .... L 3  
 Hall, Miss F. .... SS & A L  
 Hall, R. E. .... M 3  
 Hall, R. B. .... A 4  
 Halliday, H. .... Corr  
 Halpin, H. E. .... c Dent 1  
 Hamilton, T. F. .... S 2  
 Hamilton, Miss A. .... c A 1  
 Hamilton, Miss E. G. .... M 2  
 Hamilton, S. P. .... Corr  
 Hanna, W. F. .... Ag 3  
 Hansen, D. A. .... c A 1  
 Hansen, E. .... Ag 1  
 Hansen, Miss J. M. .... Corr  
 Hardin, H. F. .... A & M 2  
 Hardin, N. M. .... PhmD 3  
 Hardin, S. .... c Dent 1  
 Hargrave, Miss M. F. .... Corr  
 Harkness, D. S. .... A & L 3  
 Harrison, R. H. C. .... A & L 1  
 Harrison, R. W. .... A 2  
 Hart, T. .... A 4  
 Hartree, Miss M. P. .... c p A 1  
 Harvey, Mrs. H. .... p A 3  
 Haw, Miss O. V. .... A 2  
 Hawe, H. L. .... L 4  
 Hawker, W. E. .... PhmL 1  
 Hawkins, Miss V. S. .... Corr  
 Haworth, D. C. .... Corr  
 Haworth, G. C. .... c M 1  
 Hay, Miss E. L. .... Corr  
 Hayes, A. E. .... D  
 Hayes, Sr. J. .... p A 3  
 Hayhurst, W. .... SS  
 Heard, J. B. .... Ag 1  
 Heathcote, Miss L. M. .... A 2  
 Hedley, R. W. .... Grad  
 Hegler, Miss B. E. .... H. Ec 2  
 Hegler, Miss H. F. .... A 3  
 Helfrich, J. B. .... c M 1  
 Henderson, Miss F. C. .... Grad  
 Henderson, J. D. .... c PhmL 1  
 Henderson, R. H. .... c Dent 1  
 Hennessy, Jean P. .... p A 1  
 Henry, H. .... L 3  
 Henry, W. A. .... M 3  
 Herbert, W. B. .... A & L 3  
 Herberteau, Sr. J. .... p A 2 & SS  
 Herndon, Miss E. L. .... Corr  
 Heywood, Miss B. J. .... c A 1  
 Hibbard, R. J. B. .... M 3  
 Hickey, Sr. E. .... A 2 & SS  
 Hicks, R. A. .... M 3  
 Hicks, Miss G. M. .... c A 1  
 Hicks, L. A. .... Ag 1  
 Hiebert, J. C. .... L 4  
 High, R. C. .... Arch 2  
 Hill E. J. .... c Dent 1  
 Hilliker, H. C. .... A 2  
 Hipkin, G. A. .... Grad  
 Hynatyshyn, N. M. .... M 2  
 Hobbs, Miss E. H. .... A 2  
 Hofland, A. .... Ag 1

Hollies, E. G. .... M 3  
 Hollies, W. St. G. .... A 3  
 Holman, D. .... SS  
 Holman, Mrs. V. V. .... sp A 1  
 Holmes, C. R. M. .... c A & Ag 1  
 Hoover, R. E. .... A 2  
 Hope, Miss J. T. .... A 3  
 Horne, H. W. .... A & M 2  
 Houston, C. F. .... M 1  
 Houston, H. D. .... SS  
 Howard R. V. .... Grad  
 Howe, J. W. .... Ag 1  
 Howson, E. J. .... Corr  
 Huckell, R. G. .... M 3  
 Huestis, E. S. .... c A 1  
 Hueston, Miss L. A. .... p A 2  
 Hughes, E. .... Corr  
 Hughes, J. M. .... Corr  
 Hughes, R. J. .... Corr  
 Hulland, R. .... Corr  
 Humphrey, H. L. .... sp A 3  
 Hunt, E. A. .... M 2  
 Hunter, H. M. .... c S 1  
 Hunter, Miss M. W. .... c M 1  
 Huskins, C. L. .... Ag 2  
 Hustler, G. F. .... Grad A  
 Huston, W. J. H. .... D  
 Hutchison, Miss A. S. .... Grad A  
 Hyde, E. .... Dent 1  
 Hyde, E. E. .... Grad A  
 Hyndman, Miss C. E. .... p A 1  
 Iddings, Miss T. A. .... A 3  
 Inkster, Miss H. E. .... sp A 1 & Corr  
 Irwin, W. J. .... M 3  
 Jackson, A. B. .... S 3  
 Jamieson, F. G. .... Med 2  
 Jamieson, K. R. .... A & L 2  
 Jampolsky, M. .... Grad A  
 Jarrett, W. A. .... A & M 3  
 Jean-Richard, M. E. .... A 3  
 Jewitt, W. G. .... S 3  
 Johanson, Miss L. .... Corr  
 Johnson, C. E. .... c PhmL 1  
 Johnson, T. F. .... c PhmD 2  
 Johnstone, Miss A. E. .... Corr  
 Johnston, R. E. .... M 3  
 Jones, E. L. .... S 2  
 Jones, I. W. .... A & S 4  
 Jones, Miss H. M. .... Corr  
 Jones, J. L. .... c L 4  
 Jones, J. T. .... A 4  
 Joudry, Miss E. L. .... p A 3  
 Joyce, Miss A. F. .... A & M 2  
 Kadlec, E. .... PhmL 1  
 Kane, E. W. S. .... L 3  
 Karran, F. R. D. .... A 2  
 Karrpoff, T. M. .... c p A 1  
 Kask, Miss M. K. .... A 4  
 Kassian, Miss E. .... Corr  
 Kay, Miss E. M. .... p A 1  
 Kay, S. .... M 1  
 Kearney, Miss F. B. .... SS  
 Keith, Miss H. D. .... A 4  
 Kelley, C. C. .... Ag 1  
 Kelley, Miss O. T. .... Corr  
 Kelly, L. C. .... Arch 1  
 Kelly, W. A. .... Grad A  
 Kelly, W. J. .... Grad A  
 Kemp, A. T. .... Ag 3  
 Kennedy, Miss A. .... A & M 3  
 Kerr, Mrs. E. .... sp A 3  
 Kerr, Miss H. N. .... A 4



# STUDENTS

Kerr, J. T. .... c A & M 1  
 Kershaw, E. V. .... M 2  
 Kilpatrick, R. A. .... SS  
 Killam, Mrs. F. F. .... Grad A  
 King, Chas. .... p A 2  
 King, H. C. .... Corr  
 King, W. .... A 2  
 Kirk, J. E. .... D  
 Kirk, N. S. .... c A 2  
 Kirkpatrick, R. A. .... c S 1  
 Kirkpatrick, W. A. .... M 3  
 Kline, M. .... Dent 2  
 Knight, Miss G. E. .... SS  
 Knox, Miss M. C. .... SS  
 Koch, A. .... L 4  
 Koenig, Miss D. L. .... A 4  
 Korchinski, L. M. .... c A & L 1  
 Kostash, H. A. .... Grad A  
 Kostash, E. .... PhmD 1  
 Kotzin, B. .... c A & S 1  
 Krause, M. E. .... M 2  
 Kronick, I. R. .... L 3  
 Kubanek, J. L. .... M 2  
 Kusiw, N. .... Dent 1 & Corr  
 Kutz, R. L. .... c A & M 1  
 Kutz, W. M. .... A 2  
 Lackey, H. P. .... PhmL 1  
 LaFleche, Miss H. M. .... A & L 4  
 Lamb, R. L. .... A & L 3  
 Lang, W. A. .... A 3  
 Lang, Miss L. I. .... SS  
 Langston, R. G. .... M 2  
 Laverty, C. M. .... c A 1  
 Law, A. T. .... c Dent 1  
 Law, F. .... M 3  
 Laws, C. .... SS  
 Lawson, Miss E. M. M. .... H.Ec 2  
 Laycock, S. R. .... Grad A  
 LeBlanc, Miss C. .... SS  
 LeBlanc, Miss R. M. .... SS  
 Lebourveau, H. B. .... S 2  
 Lee, C. G. .... M 3  
 Lee, J. G. .... A & M 2  
 Legate, M. C. .... c A 1  
 Lehane, Miss A. .... SS  
 Lehmann, A. J. V. .... A 2  
 Lehmann, J. F. .... Grad S  
 LePage, G. F. .... A & L 4  
 Lerbekno, Miss M. L. .... Corr  
 Levey, M. R. .... M 2  
 Levy, J. R. .... Corr  
 Lewis, Miss E. L. .... A 1  
 Lewis, G. M. .... M 3  
 Lewis, J. W. .... Grad S  
 Lewis, G. A. .... PhmL 1  
 Lewis, N. .... A 1  
 Leyson, Sr. M. .... Corr  
 Libbey, Miss A. .... PHN  
 Liesimer, Miss B. E. .... Grad A  
 Liesimer, E. J. .... Med 3  
 Lindsay, R. A. .... Corr  
 Lindsay, L. L. .... L 3  
 Line, W. .... Grad A  
 Lipsett, Miss C. I. .... c M 1  
 Lipsett, Miss E. M. .... c H.Ec 1  
 Livingstone, A. T. .... p A 1 & SS  
 Lloyd, D. D. .... Dent 2  
 Lloyd, M. S. .... Med 3  
 Longley, Miss M. E. .... Corr  
 Lonsdale, Miss C. .... PHN  
 Lonsdale, T. H. .... D  
 Lopushinsky, J. T. .... Corr

Low, E. L. .... c M 1  
 Luchkovich, M. .... L 2  
 Lukashuk, H. R. .... A & M 3  
 Lundie, D. M. .... Corr  
 Lundy, J. A. .... sp Ag 1  
 Lyness, Miss R. E. .... M 2  
 Lynn, F. W. .... Corr  
 Lyon, Miss L. M. .... SS  
 Lyons, E. R. .... PhmL 1  
 McAllister, J. A. .... Ag 1  
 McAllister, J. W. .... Ag 2  
 McAllister, T. H. .... SS  
 McAra, M. .... Ag 1  
 McArthur, K. D. .... A 2  
 McAulay, Mrs. M. .... sp A 3  
 McBeath, Miss P. L. .... H.Ec 2  
 McBrine, A. R. .... A & L 4  
 McCabe, J. O. .... A 4  
 McCaffray, Miss M. G. .... M 1  
 McCannel, D. A. .... Ag 1  
 McCarthy, Miss A. .... A 2  
 McCarthy, E. P. .... A 1  
 McCarthy, Miss H. F. .... SS  
 Macaulay, A. F. .... A & M 4  
 MacCauley, W. J. .... c Dent 1  
 McClung, Miss F. .... sp A 3  
 McClung, J. W. .... A & L 3  
 McColl, M. B. .... Ag 3  
 McConaghy, Miss M. N. .... PHN  
 McCorry, J. .... A & L 2  
 MacCosham, Miss R. .... A 3  
 McCrae, P. C. .... sp A 2  
 McCullough, R. V. .... A & Ag 1  
 McDermott, N. O. .... c A & S 1  
 Macdonald, B. J. S. .... A & L 2  
 MacDonald, D. W. .... S 1  
 Macdonald, D. W. .... Corr  
 Macdonald, H. J. .... L 2  
 Macdonald, Miss I. .... Grad A  
 Macdonald, J. N. .... corr  
 MacDonald, J. A. .... c S 2  
 Macdonald, J. D. A. .... S 1  
 MacDonald, J. K. .... M 2  
 MacDonald, J. N. .... SS  
 MacDonald, J. A. .... M 2  
 MacDonald, Miss M. E. .... SS  
 MacDonald, M. W. .... SS  
 MacDonald, S. G. .... c A 2  
 MacDonald, W. A. .... M 2  
 MacDonald, W. D. .... Ag 3  
 MacDonald, W. L. .... S 3  
 MacDuff, E. .... SS  
 MacEechern, Miss M. M. .... A 3  
 McElaney, B. P. .... Corr  
 McFarland, W. C. .... Corr  
 MacFarlane, Miss A. W. .... A 3  
 McGarry, Mrs. D. C. .... PhmL 1  
 McGee, J. A. .... L 3  
 McGillis, Miss H. T. .... Corr  
 McGookin, J. Y. .... Grad A  
 MacGregor, A. D. .... c Dent 1  
 MacGregor, A. J. .... A & L 1  
 MacGregor, Miss L. C. .... M 3  
 McGuigan, J. C. .... Grad A  
 McCuire, J. .... A 4  
 McIntosh, Miss E. M. .... sp A 1  
 McIntyre, Miss B. M. .... A 3  
 McIntyre, Miss E. H. .... H.Ec 2  
 McIvor, Miss M. E. .... A 3  
 McKay, H. D. .... A & L 2  
 McKechnie, A. W. .... PhmL 1  
 McKechnie, Miss G. B. .... SS



# UNIVERSITY OF ALBERTA

McKee, Miss M. E. ....	sp A 3	Mathie, J. ....	A 1
McKelvey, J. ....	sp A 3	Matson, P. F. ....	Ag 1
McKenzie, C. H. ....	M 2	Matthews, Miss E. C. ....	A 2
McKibbin, R. ....	c p Dent 1	Matthias, Miss M. H. ....	A & L 2
McKinnon, D. J. ....	Ag 2	May, E. V. ....	A 2
McKitrick, Miss E. A. ....	A 4	Mayhew, Miss M. L. ....	H.Ec 2
McKitrick, Miss J. K. ....	p A 3	Mayne, J. ....	c A 1
MacLachlan, G. ....	Corr	Mayson, Miss J. ....	PHN
MacLachlan, Miss I. M. ....	p A 1	Meagher, J. E. ....	Grad A
MacLaren, I. V. ....	c p A 1	Mealing, C. H. ....	S 1
McLaughlin, J. H. ....	A 1	Megas, J. ....	M 2
MacLachlan, G. ....	Corr	Mallett, P. M. ....	Corr
McLaughlin, Miss I. E. ....	H.Ec 3	Mellon, C. F. ....	A & S 1
McLean, Miss L. I. ....	A 2	Melnyk, Sr. T. ....	Corr
McLennan, Miss M. J. ....	p A 1	Melnychuk, M. A. ....	p M 1
McLean, R. R. ....	M 1	Menzies, E. C. ....	M 3
McLean, T. K. ....	c M 1	Messenger, T. T. ....	c A & S 1
McLeay, Miss D. E. ....	PhmL 1	Michie, T. C. ....	M 2
McLennan, Miss A. J. ....	A & M 1	Middleton, W. ....	M 3
McLennan, L. ....	M 1	Might, A. E. ....	p A 1
McLennan, Miss S. I. ....	A 4	Millar, C. ....	c M 1 & SS
McLennan, Miss R. ....	A 3	Millar, Miss J. M. ....	A 1
MacLeod, Miss A. J. ....	A 2 & SS	Millard, M. ....	c L 1
MacLeod, M. ....	S 1	Millen, J. ....	S 2
McMillan, J. ....	S 2	Miller, L. L. ....	L 3
McMillan, Miss J. C. ....	A 4	Miller, Miss A. R. ....	A 4
McMillan, Miss M. A. ....	sp A 2	Miller, A. W. ....	c L 1
MacMillan, W. A. ....	A & L 3	Milward, E. H. ....	sp A 2
McNab, Miss K. ....	c A 2	Minus, C. H. ....	Corr
McNaught, Miss B. ....	p A 2	Misener, G. D. ....	Grad A
McNeil, Miss B. E. ....	c M 1	Miskew, P. A. ....	A 4
McNeill, D. I. ....	A & L 2	Mitchell, Miss B. ....	A 2
McNeil, Miss H. C. ....	p A 2	Mitchell, C. A. ....	Corr
McPhee, M. S. ....	PhmL 1	Mitchell, Miss M. W. ....	SS
MacPherson, A. D. ....	c A 1	Mitchell, R. R. ....	A & L 1
McQueen, Miss C. C. ....	A 4	Mitchell, Miss M. G. C. ....	A 1
McQueen, Miss J. ....	A 4	Moffat, Miss F. ....	A 2
McRae, A. L. ....	M 3	Moody, H. S. ....	S 2
McRae, D. M. ....	L 1	Moon, H. D. ....	c A 1
McRae, E. ....	p A 2 & SS	Moore, G. G. L. ....	L 2
McRae, W. C. ....	c A 2	Moore, Miss H. H. M. ....	A 4
McRitchie, N. E. ....	A 2	Moore, L. D. ....	M 2
Machon, G. E. ....	L 2	Moore, Mrs. M. R. ....	Corr
Madill, C. W. ....	A & Ag 2	Moraw, L. S. ....	L 2
Madill, J. S. ....	A & M 1	Moraw, Miss M. ....	p A 3
Maguire, Miss L. E. ....	Grad A	Morgan, A. R. ....	A 4
Mair, B. J. ....	A 4	Morgan, S. C. ....	Grad A
Mallett, M. ....	M 3	Morris, W. D. ....	M 3
Malloch, J. G. ....	Ag 1	Morrison, W. ....	c A 2
Malone, Miss M. M. ....	H.Ec 2	Morrison, J. A. ....	c L 1
Malton, Mrs. M. E. ....	Corr	Morrow, Miss L. M. ....	A 3
Mann, H. H. M. ....	Ag 1	Morrow, R. J. ....	M 3
Manning, G. F. C. ....	Grad A	Moss, R. W. ....	A 3
Manning, A. H. ....	p A 2	Mossman, C. C. ....	Ag 1
Manning, F. C. ....	A 3	Mueller, W. H. ....	Corr
Marion, G. ....	Grad A	Muir, C. K. ....	A & S 3
Marleau, W. F. ....	S 2	Mulholland, Miss E. ....	Grad A
Marryat, Miss S. ....	Ag 2	Mullen, L. E. ....	c A 1
Marshall, Miss A. L. ....	c A 1	Munro, A. M. ....	Grad A
Marshall, Miss D. ....	c A 1	Munroe, W. D. ....	A & M 2
Marshall, J. L. ....	c A & Ag 3	Murdock, C. G. ....	Ag 1
Marshall, Miss L. W. ....	c A 2	Murdock, R. D. ....	Ag 1
Marshall, S. ....	A 3	Murphy, F. J. ....	M 3
Marshall, T. G. ....	sp A 3	Murphy, T. ....	Grad A
Martin, Miss E. M. F. ....	A 3	Murray, Sr. J. ....	p A 3 & SS
Martin, H. A. ....	PhmL 2	Mury, S. ....	SS
Martin, W. M. ....	Ag 1	Myles, E. R. ....	M 3
Marwood, W. R. ....	PhmL 1	Nash, Miss R. C. ....	Grad A
Mascieuch, W. ....	c M 1	Newland, H. C. ....	Grad A
Mason, H. A. ....	c M 1	Newson, Miss D. A. ....	A & M 2
Mason, Miss M. L. ....	H.Ec 1	Newson, F. J. ....	A & L 2
Mather, T. H. ....	Ag 3	Nicholson, Miss R. ....	p A 1



# STUDENTS

Nicoll, J. M. .... A & S 4  
 Neilson, S. .... A & L 4  
 Nix, H. L. .... M 1  
 Noble, C. E. .... c A & S 1  
 Noble, Miss F. M. .... Corr  
 Noble, T. E. .... c Dent 1  
 Northcote, Miss M. E. .... c A 1  
 O'Brien, J. W. .... c A & L 2  
 O'Donnell, C. .... A 2  
 O'Grady, C. L. .... SS  
 Ogston, A. W. .... A 4  
 O'Meara, G. W. G. .... SS  
 Osborne, W. C. .... Dent 2  
 Osterland, C. D. .... c A 1  
 Owen, P. .... A 2  
 Page, P. .... Corr  
 Page, R. H. C. .... A 2  
 Palmer, M. B. .... A 3  
 Panabaker, H. E. .... Corr  
 Paradis, Miss E. .... sp A 1  
 Parke, Miss A. V. .... c A 1  
 Park, W. F. .... p Dent 1  
 Parke, Mrs. M. V. .... SS  
 Parkhill, Mrs. W. C. .... p A 1  
 Parney, G. L. .... L 2  
 Paterson, F. W. .... c S 1  
 Paterson, G. C. .... L 2  
 Patrick, L. .... L 2  
 Pattullo, Miss C. B. .... Corr  
 Pattullo, J. A. .... SS  
 Pawling, H. M. .... PhmD 3  
 Pawluk, P. .... M 2  
 Peacock, B. C. .... Ag 2  
 Peacock, G. W. .... A 2  
 Pearson, R. .... L 2  
 Peattie, R. W. .... SS  
 Pecknold, Miss G. C. .... c A 1  
 Peddicord, E. L. .... S 1  
 Peddicord, O. L. .... c M 1  
 Pegrum, D. F. .... A 4  
 Pegrum, R. H. .... A 3  
 Pentland, Miss L. C. .... A 4  
 Pennock, F. B. .... Grad A  
 Perry, J. E., Miss .... c A 1  
 Petersen, H. I. .... c S 1  
 Peterson, R. A. .... A & Ag 2  
 Petrie, D. A. .... SS & p A 1  
 Phillips, E. W. .... Ag 3  
 Philp, D. F. .... A 3  
 Pierson, Miss E. I. .... H.Ec 2  
 Pinder, C. S. .... A 3  
 Pinsky, S. I. .... PhmL 2  
 Piquette, Miss A. .... Corr  
 Plummer, N. M. .... L 4  
 Pointer, Miss J. .... p A 1  
 Poirier, P. E. .... L 1  
 Poitras, R. E. .... PhmL 1  
 Pond, J. W. .... c S 1  
 Poole, W. N. .... L 2  
 Porter, Miss H. P. .... A 2  
 Portugal, Sr. St. J. .... SS  
 Power, W. H. .... c A 1  
 Pawlett, C. H. .... L 3  
 Prevey, Miss E. E. .... A 2  
 Prystead, D. .... sp Ag 1  
 Puffer, S. A. .... L 4  
 Quantz, O. P. .... Ag 1  
 Race, C. E. .... Grad A  
 Rae, Miss M. V. .... M 1  
 Ramsay, D. M. .... c A 1  
 Ramsey, M. D. .... c A 2  
 Rankin, G. C. .... M 3

Rankine, T. C. .... L 2  
 Raver, Miss A. .... A 2  
 Raver, Miss I. C. .... H.Ec 3  
 Rawlinson, H. E. .... M 1  
 Rawlinson, F. S. .... SS  
 Reed, C. E. .... M 2  
 Reed, T. W. .... sp A 2  
 Rehwinkel, A. .... Grad A  
 Reid, Miss A. G. .... PHN  
 Reid, C. D. .... p S 2  
 Reid, A. .... c A 1  
 Reid, Miss M. F. .... sp A 3  
 Reid, R. L. .... Corr  
 Reid, Mrs. S. T. .... Corr  
 Rein, Miss R. .... L 4  
 Reith, Miss M. .... sp A 1  
 Reiz, Miss M. G. .... Corr  
 Revell, A. M. .... A 1  
 Revell, J. E. .... c A 1  
 Richards, Miss D. F. .... A 3  
 Richards, R. .... S 3  
 Richards, W. C. .... p A 3  
 Richardson, B. H. .... Ag 1  
 Richardson, J. W. .... Ag 2  
 Richardson, Miss Z. .... PHN  
 Riley, D. W. .... c A 2  
 Roach, Miss E. L. .... Corr  
 Roberts, Miss J. .... SS  
 Robertson, B. H. .... c Dent 1  
 Robertson, Miss M. E. .... c A & L 1  
 Robertson, R. W. .... Dent 1  
 Robertson, Miss B. M. .... Corr  
 Robinson, J. W. .... c L 1  
 Robison, N. R. .... Corr  
 Robson, Miss H.M. .... A 4  
 Rogers, L. B. .... Corr  
 Rogers, W. A. .... SS  
 Romer, J. .... Dent 2  
 Ronning, C. A. .... SS  
 Rookwood, M. .... p A 3  
 Roscoe, Miss H. M. .... A 4  
 Roseborough, A. S. .... M 2  
 Ross, W. S. .... c A & L 1  
 Roth, Miss E. L. .... H.Ec 3  
 Roth, H. W. .... SS  
 Roth, Miss L. F. .... p A 2  
 Rothney, Miss F. E. .... Grad A  
 Rothwell, J. M. .... c A & S 2  
 Rothwell, W. A. .... Corr  
 Routledge, G. L. .... M 3  
 Rowe, Miss M. E. .... M 2  
 Rozmabel, F. W. .... Ag 1  
 Rozmabel, J. P. .... Ag 1  
 Rudd, F. A. .... A & L 3  
 Ruddy, C. E. .... A & L 2  
 Ruddy, J. O. .... M 2  
 Rush, R. D. .... A & M 2  
 Russell, A. C. .... p A 1 & SS  
 Russell, Miss M. B. .... PhmD 3  
 Rutherford, Miss L. .... Corr  
 Salt, Geo. .... A 2  
 Sanders, A. L. .... Ag 1  
 Sanders, L. O. .... PhmL 1  
 Sanderson, J. O. G. .... A 4  
 Sandstrom, Miss A. M. .... Corr  
 Sansbury, C. .... L 2  
 Saucier, J. J. .... A & L 2  
 Saunders, W. G. .... M 2  
 Savage, H. R. .... Corr & SS  
 Sawula, S. .... L 4  
 Scarth, W. M. .... A 3  
 Schade, Miss C. .... PhmL 2



# UNIVERSITY OF ALBERTA

Schlenden, F. A. .... sp A 1  
 Scott, Miss B. H. .... c A 1  
 Scott, Mrs. B. H. .... sp A 1  
 Scott, J. F. .... L 3  
 Scott, R. J. .... p A 3  
 Scott, N. .... PhmD 3  
 Scott, H. W. .... c M 1  
 Scott, Miss L. M. .... PhmD 3  
 Scroggie, A. G. .... A 4  
 Seabrook, P. N. .... sp A 1  
 Selnes, W. E. .... c A & S 2  
 Sewell, Miss M. .... p A 1  
 Shackleton, Miss H. E. .... c A 1  
 Shankman, Miss A. .... c A 1  
 Shankman, H. .... A & M 2  
 Shanks, Miss M. S. .... A 3  
 Shannon, T. E. .... p A 1  
 Shavchook, P. .... c A & L 1  
 Shaw, Miss O. J. .... A 2  
 Shepard, L. J. .... L 1  
 Sheppard, S. W. .... Ag 1  
 Sheppard, R. S. .... Grad A  
 Sheridan, R. H. .... L 1  
 Shippan, F. .... M 2  
 Shonn, F. C. .... c A & S 1  
 Short, W. A. .... c S 1  
 Sibbett, W. A. .... c A 1  
 Sigler, D. .... c A & L 1  
 Simmons, Miss M. J. .... A 3  
 Simmons, R. L. .... M 2  
 Simpkin, Miss M. M. .... A 3  
 Simpkin, D. B. .... S 4  
 Simpson, Miss G. S. .... H.Ec 2  
 Simpson, Miss M. S. .... A 4  
 Simpson, A. M. .... A & M 4  
 Simpson, D. S. .... A 2  
 Sinclair, D. C. .... L 4  
 Sissons, Miss D. A. .... Corr  
 Skiles, D. C. .... L 1  
 Skinner, Miss P. F. .... c H.Ec 1  
 Skouson, D. P. .... c L 1  
 Smith, Miss A. M. .... p A 1  
 Smith, A. W. .... A & S 1  
 Smith, C. K. .... L 1  
 Smith, Miss D. M. .... Corr  
 Smith, Miss F. G. M. .... c A & M 2  
 Smith, H. E. .... c Dent 1  
 Smith, K. .... Grad A  
 Smith, L. E. .... c Dent 1  
 Smith, S. H. .... sp A 1  
 Smith, Miss O. V. .... c A 1  
 Smith, Miss V. E. .... p A 3  
 Smith, W. G. .... Ag 1  
 Soby, W. H. .... M 2  
 Solheim, A. H. .... Grad A  
 Soper, J. D. .... sp A 3  
 Souter, L. C. R. .... L 3  
 Speer, Miss G. P. .... c H.Ec 1  
 Stacey, E. C. .... c A & Ag 2  
 Stafford, Miss D. .... A 4  
 Staley, Miss M. A. .... PHN  
 Stanford, Miss M. .... A 2  
 Stansell, S. S. .... SS  
 Stark, J. H. .... sp A 2  
 Stauffer, M. L. .... M 2  
 Steele, Miss E. M. .... Grad A  
 Steele, Miss I. M. .... A 4  
 Steele, S. .... Corr  
 Steeves, Miss E. C. .... PHN  
 Steeves, Miss H. D. .... L 2  
 Steeves, J. L. .... Dent 1  
 Sterritt, W. R. .... S 3

Stewart, F. J. .... c S 1  
 Stewart, Miss I. M. .... Corr  
 Stewart, W. R. .... p PhmL 2  
 Stewart, G. H. .... PhmL 1  
 Stewart, R. E. .... Grad A  
 Stewart, Miss L. I. .... A 1  
 Stewart, Miss J. M. .... SS  
 Stewart, N. M. .... A 3  
 Stewart, S. .... Corr  
 Stick, E. M. .... Grad A  
 Stiles, E. N. .... PhmL 1  
 Stock, H. P. .... PhmL 1  
 Stock, S. W. .... S 2  
 Stolee, P. B. .... A 3  
 Stone, F. V. .... Corr  
 Stothers, W. .... c PhmD 2  
 Stothers, Miss J. .... A 2  
 Strem, Miss M. .... PHN  
 Strlechuk, N. C. .... M 2  
 Stuart, O. L. .... A 4  
 Studholme, Miss B. G. .... A 2  
 Studholme, Miss R. W. .... A 1  
 Stults, C. L. .... Corr  
 Stutchbury, E. H. .... c S 1  
 Stutchbury, E. W. .... A & L 4  
 Suitor, Miss M. H. .... A 4  
 Sutcliffe, F. A. .... c A 1  
 Sutherland, F. G. .... Grad A  
 Sutherland, G. D. .... c Dent 1  
 Swanson, Miss A. .... PhmD 4  
 Swanson, J. A. .... c A 1  
 Swift, W. H. .... A 2  
 Symes, W. E. .... S 2  
 Tait, R. M. .... M 3  
 Talbot, M. A. .... sp M 1  
 Tallmann, F. F. .... M 1  
 Tames, J. A. .... c S 1  
 Tanner, B. F. .... c L 1  
 Taylor, Mrs. D. .... p A 1  
 Taylor, G. B. .... A 3  
 Taylor, J. G. .... Grad A  
 Taylor, R. S. .... sp A 2  
 Taylor, R. C. .... D  
 Telfer, L. .... S 2  
 Terry, R. E. .... SS  
 Teskey, H. G. .... A 3  
 Tester, K. B. .... Ag 1  
 Teviotdale, D. J. .... Grad A  
 Third, C. T. .... PhmL 1  
 Third, J. A. .... PhmL 2  
 Thom, J. M. .... L 1  
 Thomson, Miss C. A. .... p A 1  
 Thomson, Miss G. H. .... Grad A  
 Thomson, W. S. .... c S 1  
 Thomson, Miss O. M. .... p A 2  
 Thoreson, H. P. .... c A 1  
 Thornton, H. R. .... Ag 3  
 Thornton, W. H. .... c A 1  
 Thurston, G. B. .... c Dent 1  
 Tilley, Miss T. M. .... p A 1  
 Timmins, Miss B. .... H.Ec 3  
 Tomlinson, H. O. .... A 3  
 Tomlinson, Miss M. .... A 1  
 Topham, R. .... L 2  
 Torgerson, Miss L. A. .... c A 1  
 Torrance, C. G. .... PhmL 2  
 Towne, A. J. .... c Dent  
 Treacy, Miss S. M. .... A 3  
 Tregillus, Miss M. C. .... Grad A  
 Trimble, L. .... M 2  
 Trotter, Miss Z. P. .... A 1  
 Trowbridge, Miss C. E. .... c A 1



# STUDENTS

Tuck, M. ....	A 2	Wees, W. R. ....	A 3
Tucker, E. V. C. ....	c A 1	Weir, C. V. F. ....	c A 1
Tuftsland, L. M. ....	Corr	Weir, T. E. ....	Corr
Turcotte, L. S. ....	L 1	Wells, Mrs. A. ....	Grad A
Turner, D. B. ....	Corr	Wershof, Miss M. J. ....	A 4
Turner, W. O. ....	A & L 2	Weslake, E. ....	c Dent 1 & SS
Tyner, L. E. ....	SS	Weston, D. T. ....	M 3
Tymich, C. F. ....	Corr	Wheeler, C. C. ....	c A 1
Tymich, S. A. ....	Corr	Whiddon, J. W. ....	SS
Uchida, M. ....	M 2	Whiffin, H. E. ....	L 4
Underwood, C. ....	A & S 3	White, E. W. ....	A & L 2
Upton, R. ....	sp A 3	White, R. D. ....	L 2
Urbanoski, J. F. ....	c M 1	White, T. E. ....	L 2
Urchak, S. ....	Corr	White, Miss V. ....	SS
Van Buren, Miss H. M. ....	L 3	Whitehorn, Miss J. M. ....	Corr
Van Idour, Miss L. E. ....	L 2	Whitehorn, L. N. ....	Corr
Varnum, A. C. ....	A 4	Whiteman, Miss D. F. ....	PhmD 4
Verreau, Miss A. M. ....	Corr	Whiteman, G. F. ....	L 1
Vickerson, F. O. ....	PhmL 2	Whitford, O. W. ....	A 3
Villett, G. H. ....	A 4	Whitford, Miss O. M. ....	p A 1
Villy, Miss B. L. ....	A 2	Whitman, F. P. ....	S 3
Villy, Miss M. H. ....	A 4	Wilkinson, E. ....	c Dent 1
Voyer, A. ....	M 2	Williams, Miss C. L. ....	A 4
Wade, Miss E. ....	p A 2	Williamson, J. O. ....	A & L 2 & SS
Wagner, W. P. ....	SS	Willis, E. M. ....	A & L 3
Waines, F. D. ....	S 2	Willis, C. B. ....	sp A 3
Wait, N. A. ....	S 2	Willis, E. W. ....	Corr
Waldo, C. S. ....	c M 1	Wilson, A. R. ....	M 2
Walker, A. J. ....	M 3	Wilson, H. J. ....	L 4
Walker, H. K. ....	A 1	Wilson, H. O. ....	M 3
Walker, J. ....	Ag 1	Wilson, Miss I. S. ....	A 4
Walker, L. A. ....	A 1	Wilson, J. ....	Corr
Walker, Miss M. ....	A 2	Wilson, Miss M. M. ....	Corr
Wallace, Miss G. M. ....	A 3	Wilson, Dr. M. J. ....	A 4
Wallace, M. L. ....	Ag 1	Wilson, G. L. ....	A 3
Wallbridge, E. G. ....	L 3	Wilson, Miss H. M. ....	H.Ec 3
Walsh, T. J. ....	M 1	Wilson, E. B. ....	c A & L 1
Walsh, B. ....	SS	Wilton-Clark, H. ....	S 2
Walters, G. T. ....	A & Ag 1	Wintemute, K. F. ....	c A & M 1
Walton, Mrs. Jean C. ....	SS	Wood, Miss A. A. ....	A 4
Ward, A. E. ....	M 2	Wood, F. ....	Dent 1
Ward, Miss C. C. ....	A 2	Wood, S. ....	L 2
Ward, J. S. ....	c M 1	Wood, Miss V. ....	Corr
Watchorn, H. C. ....	L 2	Wolyng, J. ....	Corr
Watson, A. M. ....	c Dent 1	Wright, T. H. ....	D
Watsyk, J. ....	M 2	Wrinch, L. B. ....	A & M 4
Watt, Miss M. E. F. ....	sp A 3	Xavier, Sr. St. F. ....	SS
Watt, Miss P. E. ....	SS	Yauch, C. E. ....	Ag 1
Watts, C. W. ....	PhmL 2	Young, G. A. ....	c A 1
Webb, H. R. ....	Grad S	Young, Miss H. B. ....	A 1
Webb, W. ....	c A 1	Younge, O. B. ....	Ag 1
Webster, D. A. C. ....	A 4	Young, W. C. ....	PhmL 1
Webster, J. M. ....	c A 1	Zaharachuk, A. ....	PhmD 2
Webster, Miss M. M. ....	sp A 1	Zadra, M. ....	c M 1



# Scholarships, Prizes, Medals and Degrees, 1921-22

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## SCHOLARSHIPS

### **The Women's University Club Scholarship**

For women in the first year of the Faculty of Arts and Sciences  
(Not Awarded.)

### **Scholarships in the Faculty of Medicine Offered by the College of Physicians and Surgeons of the Province of Alberta**

First Year—General Proficiency: Sydney Kay.

Third Year—Physiology: Alphonse Middleton Crawford.

Third Year—Anatomy, Five Year Course Robert Gordon Douglas,  
Rodger James Hibbard. (Equal).

Third Year—Anatomy, Six Year Course: Miss Leone McGregor.

### **The Scholarships of the Alberta Pharmaceutical Association**

Degree Course—Third Year: Amy Eleanor Garbutt.

Licentiate Course—First Year: John Featherstone Claxton.

## PRIZES

### **The Jane Alexander Memorial Prizes**

In Latin: Barbara Lloyd Villy.

In Geology: Reginald Herbert Pegrum.

### **The Gordon Stanley Fife Memorial Prize**

In History: Dudley Frank Pegrum.

### **The Samuel Richard Hosford Memorial Prize**

In English: John Thomas Jones.

### **The Harold Wood Huestis Memorial Prize**

In English: Barbara Lloyd Villy.

### **Prizes in Mathematics**

In Mathematics 1: Lynwood Arthur Walker.

In Mathematics 3: Aubert Wesley Giffen.

### **The Vallee French Prize**

Louis Adolphe de Savoye

## MEDALS

**The French Prize of the Societe du Parler Francais**  
Jack James Saucier.

**The French Prize of the Comite Permanent de la Langue Francaise**  
Sister Josephine Herbreteau.

**The Historical Club Prize**  
Kathleen McNab.

**Prizes of the Association of Professional Engineers of Alberta**  
In Civil Engineering: Richard Burns Bryden  
In Mining Engineering: Nelles Henry Atkinson.

**Bursary of the Association of Professional Engineers of Alberta**  
In Electrical Engineering: William Robert Sterritt.

## MEDALS

**The Governor-General's Medal**  
William Fielding Hanna, B.A.

**The Lieutenant-Governor's Gold Medal for the Study of Shakespeare**  
(Not Awarded.)

**The Charles Allan Stuart Gold Medal in Classics**  
(Not Awarded.)

**The Alexander Cameron Rutherford Gold Medal in English**  
Margaret Harman Villy.

**The Women's University Club Gold Medal**  
For Proficiency in the Faculty of Arts and Sciences: Dorothy Diller.

**The John A. McDougall Gold Medal**  
For Proficiency in the Faculty of Applied Science: Richard Burns  
Bryden.

**The Chief Justice's Gold Medal in Law**  
Sidney Bruce Smith, B.A.

**The James Ramsey Gold Medal in Mathematics**  
Thelma Victoria Butchart.

**Moshier Memorial Medal**  
1919-20: George Franklin Young.  
1920-21: Andrew H. Meneely. 1821-22: Marshall Mallett.



## UNIVERSITY OF ALBERTA

**The Club Laverendrye Gold Medal in French**  
Margaret Courteen Archibald.

**The Alberta Pharmaceutical Association Gold Medals in Pharmacy**  
In the Degree Course: (Not Awarded.)  
In the Licentiate Course: Frank Oliver Vickerson.

### FELLOWSHIP

**The Lloyd Hartnoll Bishop Memorial Fellowship in English Literature**  
Kemper Hammond Broadus

### FIRST CLASS GENERAL STANDING

**Faculty of Arts and Sciences**

Fourth Year: Dorothy Diller.

Second Year: John MacIntyre Cassels, George Salt.

**Faculty of Applied Science**

Fourth Year: Richard Burns Bryden.

**Faculty of Medicine**

Second Year: Gerald Stuart Charlesworth, George Ernest Reed.

**Faculty of Agriculture**

Third Year: William Fielding Hanna, B.A.

**Faculty of Law**

First Year: Sigvald Nielson.

### PRESENTATION OF DIPLOMAS AND CERTIFICATES

#### Diplomas in Pharmacy

Carter, Vernon Ernest  
Edlund, Alfred Eugene  
Edwards, Harold Ernest  
Grant, Edward Gladstone  
Martin, Henry Albert

Pinsky, Samuel Irving  
Sanders, Leonard Oliver  
Third, James Alexander  
Torrance, Clarence George  
Vickerson, Frank Oliver  
Watts, Charles William

#### Certificats in Special Course in Pharmacy

Christensen, Christian Peter  
Stewart, Walter Raymond

Crooks, George Clarence  
Stock, Halvard Peter

#### Certificates in Public Health Nursing

Bean, Bernice  
Lonsdale, Clara  
Mayson, Jennie  
Reid, Annie Gertrude

Richardson, Zella  
Strem, Marylka  
Staley, Mary Ann  
Steeves, Emma Clarkson

## DEGREES

### Admitted to the Degree of Bachelor of Arts

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>- Archibald, Margaret Courteen<br/>(with First Rank Honours in<br/>Modern Languages)</li> <li>- Bakewell, Edna Georgia</li> <li>- Beveridge, Belle</li> <li>- Black, Lois Young</li> <li>- Bryan, Helen Alexandra</li> <li>- Butchart, Thelma Victoria<br/>(with First Rank Honours in<br/>Mathematics)</li> <li>- Cowan, Kate Sinton</li> <li>- Diller, Dorothy (with First<br/>Class General Standing)</li> <li>- Garrison, Daphne (with First<br/>Rank Honours in Philosophy)</li> <li>- Giffen, Blanche</li> <li>- Kask, Mary Kathleen</li> <li>- Keith, Helena Dawson</li> <li>- Kerr, Helena Nesbitt</li> <li>- Koenig, Daphne Lowrie</li> <li>- LaFleche, Helen Madeleine</li> <li>- McMillan, Jean Elma</li> <li>- McQueen, Christina Catherine</li> <li>- McQueen, Jean</li> <li>- Miller, Aileen Redvers</li> <li>- Moore, Hazel Hilda Mae</li> <li>- Nicoll, Jean Kathleen</li> <li>- Pentland, Lucille Geraldine</li> <li>- Roscoe, Helen Margaret</li> <li>- Stafford, Dorothy Donalda</li> <li>- Steele, Ivy May</li> <li>- Suitor, Minnie Hood</li> <li>- Villy, Margaret Harman (with<br/>First Rank Honours in Eng-<br/>lish)</li> <li>- Wershof, Minnie Jennie</li> <li>- Williams, Cathrine Lucille</li> <li>- Wilson, Ivy Snow</li> <li>- Wilson, Margaet Jane, M.D.</li> <li>- Wood, Alethea Arabella</li> </ul> | <ul style="list-style-type: none"> <li>- Adam, James Don</li> <li>- Allwork, Charles Theodore<br/>(with First Rank Honours in<br/>History)</li> <li>- Broadus, Kemper Hammond</li> <li>- Chadsey, Louis Colvin</li> <li>- Charlesworth, Gerald Stuart</li> <li>- Cousins, Frank Clifford</li> <li>- Davis, Edward Newton</li> <li>- Edworthy, Silvanus</li> <li>- Evans, Russell Wadleigh</li> <li>- Fetter, Roy Eugene</li> <li>- Ford, Francis Armour</li> <li>- Frame, William Edward</li> <li>- Francis, Arthur Chesley</li> <li>- Gordon, Clarke Lorin</li> <li>- Hustler, George Francis</li> <li>- Jones, Islwyn</li> <li>- Jones, John Thomas (with Sec-<br/>ond Rank Hoours in Eng-<br/>lish)</li> <li>- LePage, George Frederick</li> <li>- McBrine, Arthur Richrdson</li> <li>- McCabe, James Osborne</li> <li>- Macaulay, Archibald Francis</li> <li>- Miskew, Peter Alexander</li> <li>- Morgan, Arthur Robinson</li> <li>- Nicoll, James McLaren</li> <li>- Nielson, Sigvald</li> <li>- Ogston, Alexander Whyte</li> <li>- Pegrum, Dudley Frank (with<br/>First Rank Honours in His-<br/>tory)</li> <li>- Philp, Donald Francis</li> <li>- Snider, Edward Cecil</li> <li>- Stuart, Oliver Leslie</li> <li>- Stutchbury, Ewart William</li> <li>- Villett, George Harrison</li> <li>- Webster, Daniel Alec Calder</li> <li>- Wrinch, Leonard Breckon</li> </ul> |
|--|--|

### Admitted to the Degree of Bachelor of Arts, ad Eundem

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>Voyer, Adrien, B.A.</li> <li>Alfred, Victor, B.A.</li> <li>Forester, Edith, B.A.</li> <li>Hardisty, Esther, B.A.</li> <li>Crawford, Mary, B.A.</li> <li>Maguire, Lorene, B.A.</li> <li>Nash, Ruby, B.A.</li> <li>Taylor, John Gladstone, B.A.</li> </ul> | <ul style="list-style-type: none"> <li>Dobson, Harold Ederson, B.A.</li> <li>Fleming, W. Stuart, B.A.</li> <li>Willis, Errick French, B.A.</li> <li>Wright, Thomas Hall, B.A.</li> <li>Poirier, Paul Emile, B.A.</li> <li>Mulholland, Elsie, B.A.</li> <li>Hutchison, Alice, B.A.</li> <li>Smith, Cairns Keith, B.A.</li> </ul> |
|---|---|



## UNIVERSITY OF ALBERTA

### Admitted to the Degree of Bachelor of Science in Arts

- |  |   |
|--|---|
| ✓ Cain, Ardis Ruth   | ✓ Good, Lorne (with First Rank Honours in Chemistry)                |
| ✓ Cain, Pauline Ulva   | ✓ Hart, Thomas  |
| ✓ Fergusson, Lola May  | ✓ McGuire, John   |
| ✓ McKittrick, Eva Annie  | ✓ Manzer, Howard Lee  |
| ✓ McLennan, Susan Isabel   | ✓ Sanderson, James Owen Gresham                                     |
| ✓ Robson, Helen McGregor   | ✓ Scroggie, Arthur Galbraith (with First Rank Honours in Chemistry) |
| ✓ Simpson, Maimie Shaw   |   |
| ✓ Gardiner, Elmslie William (with First Rank Honours in Chemistry) |   |

Admitted to the Degree of Bachelor of Science in Arts, ad Eundem  
Morgan, Stanley C., B.Sc.

### Admitted to the Degree of Bachelor of Science in Pharmacy

- |                             |                               |
|-----------------------------|-------------------------------|
| ✓ Swason, Alice             | ✓ Copeland, Earl Royal Palmer |
| ✓ Whiteman, Dorothy Frances |                               |

### Admitted to the Degree of Bachelor of Science in Civil Engineering

- |   |                             |
|---|-----------------------------|
| ✓ Bryden, Richard Burns (with First Class General Standing) | ✓ Donaldson, Arthur         |
|   | ✓ Simpkin, Douglas Benjamin |

### Admitted to the Degree of Bachelor of Science in Mining Engineering

- |                          |                             |
|--------------------------|-----------------------------|
| ✓ Atkinson, Nelles Henry | ✓ Butchart, Harold Tremayne |
|--------------------------|-----------------------------|

### Admitted to the Degree of Bachelor of Science in Architecture

- ✓ Giffen, Andrew Donald

### Admitted to the Degree of Bachelor of Science in Agriculture

- |   |                             |
|---|-----------------------------|
| ✓ Gaetz, John Raymond   | ✓ McColl, Mack Bentley      |
| ✓ Hanna, William Fielding, B.A. (with First Class General Standing) | ✓ MacDonald, William Duncan |
|   | ✓ Mather, Thomas Herbert    |
| ✓ Kemp, Arthur Thomas   | ✓ Phillips, Edward William  |
|   | ✓ Thornton, Harold Ray      |

### Admitted to the Degree of Bachelor of Laws

- |                              |   |
|------------------------------|---|
| ✓ Rein, Rose                 | ✓ Dickins, Francis Collingwood B.A.       |
| ✓ Alfred, Victor, B.A.       | ✓ Emery, Howard Tracy, B.A.               |
| ✓ Basarab, John Edward       | ✓ Glanville, Arthur Tennyson McLean, B.A. |
| ✓ Cobbledick, Douglas Walker |   |
| ✓ Dawson, Henry Richard      |   |

## DEGREES

- |  |                             |
|--|-----------------------------|
| ✓ Kane, Edward William Scott,<br>B.A.  | ✓ Plummer, Norman Montague  |
| ✓ Lawlor, Thomas William, B.A.         | ✓ Puffer, Stanley Asa       |
| ✓ MacLaren, Reginald Frederick         | ✓ Russell, James George     |
| ✓ McLaurin, Colin Campbell             | ✓ Sawula, Stephen           |
| ✓ Noble, George Dinning                | ✓ Scott, Percy Crichton     |
| ✓ Ogilvie, James Harwood, B.A.         | ✓ Sinclair, Douglas Cameron |
| ✓ Powlett, Charles Horatio Ar-<br>mand | ✓ Smith, Sidney Bruce, B.A. |
|  | ✓ Whiffen, Horace Ernest    |

**Admitted to the Degree of Bachelor of Laws, ad Eundem**  
Jamieson, Charles Frederick, LL.B.

### **Admitted to the Degree of Master of Arts**

- |                                       |   |
|---------------------------------------|---|
| ✓ Cobb, Lillian, B.A.                 | ✓ Jampolsky, Moses, B.A.                  |
| ✓ Tregillus, Muriel Claire, B.A.      | ✓ Kelly, William Aultin, B.A.             |
| ✓ Anderson, Ernest Hjalmar, B.A.      | ✓ Line, William, B.Sc.                    |
| ✓ Bainbridge, Joseph William,<br>B.A. | ✓ McGookin, John Young, B.A.              |
| ✓ Geeson, John Richard, B.A.,<br>B.D. | ✓ Misener, George David, B.A.             |
| ✓ Hyde, Ernest Elmer, B.A.            | ✓ Newland, Hubert Charles, B.A.,<br>LL.B. |
|                                       | ✓ Willis, Errick French, B.A.             |

**Admitted to the Degree of Master of Science in Arts**  
✓ Lehmann, Julius Ferdinand, B.Sc.

**Admitted to the Degree of Master of Science in Applied Science**  
✓ Lewis, John Wesley, B.Sc., (Mining).  
✓ Webb, Harry Randall, B.Sc., (Civil).

**Admitted to the Degree of Doctor of Medicine, ad Eundem**  
Tiffin, Melvin Erle, M.B.  
Caldwell, Alexander Lorne, M.  
D., C.M.

**Admitted to the Degree of Doctor of Laws, Honoris Causa**  
Frank Hamilton Mewburn, M.D., C.M., LL.D.  
His Grace, Most Reverend Henry Joseph O'Leary, D.D., Ph.D., J.C.D.

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Since Convocation, 1921, the following persons have passed the examinations for License to Practise, conducted by the University on behalf of the Affiliated Professional Societies:

**In May, 1921—**

### **Accountancy**

Bagnall, G.L.	Johnstone, W.S.
Gardner, R. W.	Weaver, S. T.



## UNIVERSITY OF ALBERTA

### Dentistry

Henry, L. D.

Kennedy, W. H.

### Law

Boyle, R. A.  
Brown, H. B.  
Cobbledick, D. W.  
Costigan, G. A.  
Crosby, G. C. S.  
Dawson, H. R.  
Feir, E. B.  
Heseltine, C. F.  
Johnston, H. C.  
Jones, J. I.  
Jull, W. K.  
Koch, A.  
McCormick, J. S.  
McLachlan, A. H.  
McLaren, R. F.  
McLaurin, C. C.  
Millican, G. W. H.

Patterson, G. E.  
Pennock, F. B.  
Plummer, N. M.  
Poffenroth, J. C.  
Poole, S. I.  
Rein, Rose.  
Russell, J. G.  
Sayers, J. H.  
Simpson, A.  
Sinclair, D. C.  
Smith, S. B.  
Snider, E. C.  
Snow, C. E.  
Stanton, H. E.  
Sydie, J. E.  
Valens, C. L.  
Whiffen, H. E.

### In September, 1921—

### Law

Basarab, J. E.  
Calder, G. M.  
Fisher, Helen  
Gibson, A. B.

Kronick, I. R.  
McKercher, L. E.  
Puffer, S. A.  
Sawula, S.

### Medicine

Byers, R. C.  
Caldwell, A. L.  
Corbett, J. R.  
Fish, F. H.  
Guyton, F.  
Henderson, E. F.  
James, S. P.

MacBride, C. D.  
McFarlane, G. L.  
Scott, J. W.  
Walton, R. A.  
Wilson, P. M.  
Wilson, Margaret

### Osteopathy

Guyton, F.

### Pharmacy

McDermid, A.

McIntyre, E. L.

## PROFESSIONAL EXAMINATIONS

### Nursing

Allison, Grace  
Austin, Edith  
Beattie, Barbara  
Beattie, E. J.  
Bella, Helen  
Binkley, Pleasant  
Brown, Margaret  
Carmichael, Marjorie  
Carter, Alice  
Cox, Eva  
Cumberland, Mary  
Craig, Sarah  
Dagsgood, Eleanor  
Ellis, Hazel  
Fex, Pauline  
French, Caroline  
Farnan, Phyllis  
Gilmore, Hattie  
Henkleman, Lydie  
Keefe, Mary  
Lamb, Eva

Lanzo, Pauline  
Lottan, Minnie  
McCullum, Lillias  
Miller, Alida  
Mercer, Alma  
Middleton, Mary  
Moulson, Florence  
Mum, Meta  
Nash, Jennie  
Olson, Lena  
Piepgrass, Anna  
Proulx, E. J.  
Robinson, Amelia  
Sargent, Violet  
Sutherland, M.  
Stuckey, Hazel  
Sundquist, Esther  
Tiffin, Emma  
Von Gruenigan, Bertha  
Welch, Edith

### In November, 1921—

Attwood, T. A.  
Ferster, F. M.  
Houston, R. H.  
Hulett, C. S.  
McDonald, J.

### Optometry

McGie, M.  
McMillan, J.  
Williamson, T. E.  
Zilliax, A.

### In December, 1921—

Bishop, W. F.  
Fidler, J. S.  
McGuigan, A. P.

### Accountancy

Rushworth, R. B.  
Stockwell, E. A.  
Wood, Wm. C.

### In January, 1922—

Lawrence, C. A. R.

### Land Surveying

McDonald, J. N.





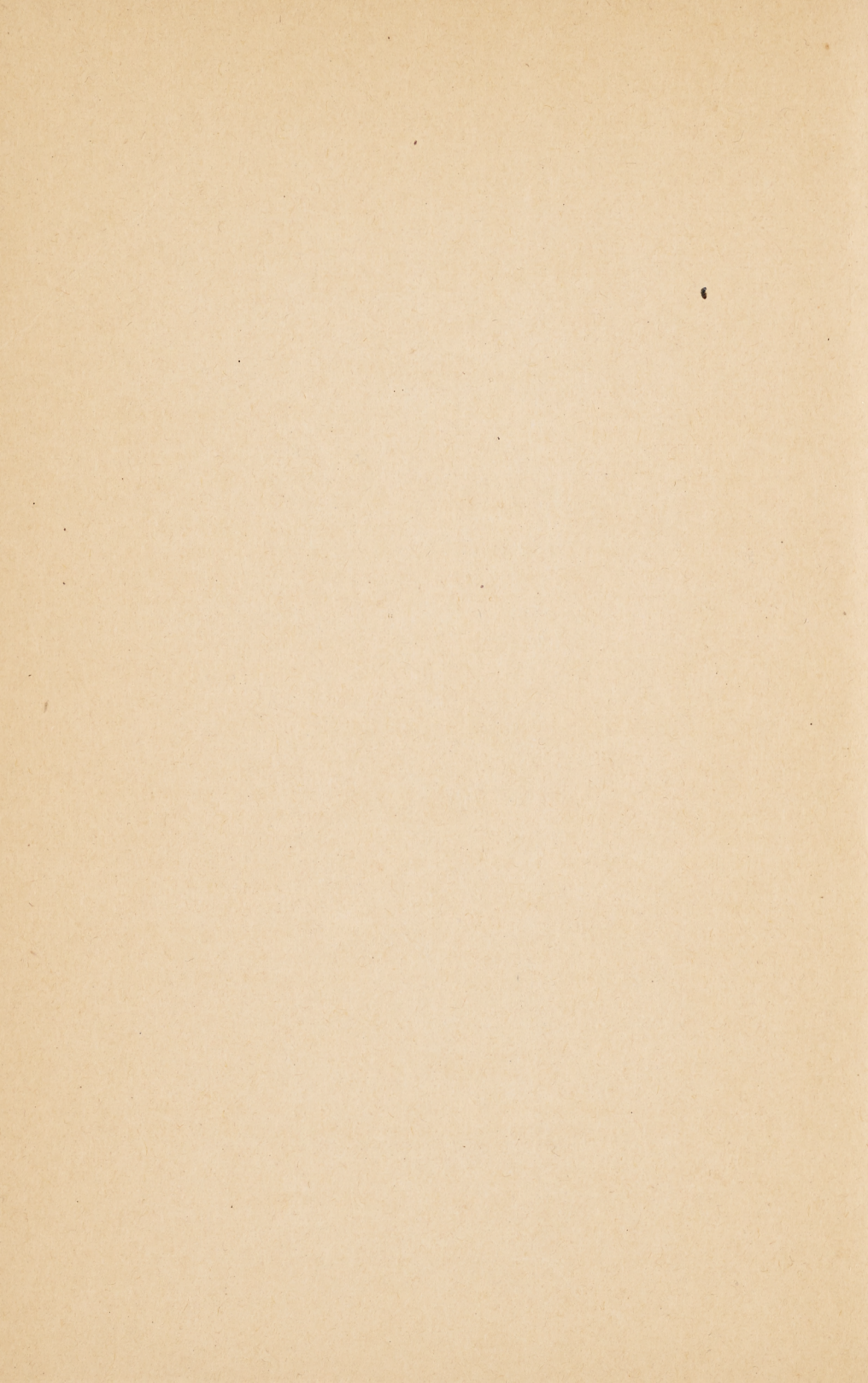
THE  
UNIVERSITY OF ALBERTA  
EDMONTON

Course for Degree of  
Bachelor of Divinity



SESSION 1922--23





# The B.D. Degree

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## REGISTRATION

By an arrangement with the affiliated colleges, the degree of B.D. is offered by the University of Alberta to graduates in the Faculty of Arts and Sciences who follow a course of study with the affiliated colleges and approved by the University Senate. After consultation with the Principal of the affiliated college in which the student will study, he should fill a form of registration with the University on or before October 31st.

The Senate Committee for the supervision of B.D. courses will pass upon this registration and notify students of approval or of necessary alterations.

The fees for the course are \$15.00, payable to the Registrar of the University at time of submission of proposed studies.

## PRELIMINARY REQUIREMENTS

(a) Candidates for the degree of B.D. must be graduates in Arts of some recognized University, or have standing deemed equivalent by the University, and must have satisfactorily completed the regular course in Theology in an affiliated or other recognized theological college. All candidates must give satisfactory evidence of a knowledge of Philosophy, including Ethics, and either Hebrew or Greek.

(b) The degree of B.D. will not be conferred on any candidate until two years have elapsed from the time (1) of his graduation in Arts, or (2) of his admission to equivalent standing.

## CURRICULUM

The B.D. course includes a special course of study and a thesis. The course of study is to be selected from the following:

- A. Old Testament Language and Literature;
- B. New Testament Language and Literature;
- C. English Bible;



- D. Systematic Theology;
- E. Church History;
- F. Philosophy of Religion;
- G. Religious Education;
- H. Applied Theology.

Each of these departments has a major and a minor as indicated in the details of courses which follow. The student shall select

- (1) One major from A or B, and two minors chosen from D, E, F, G and H; *or*
- (2) Two majors (one of which must be from C), and one minor.

A major is six hours per week class study for one session, including one hour of seminar on thesis material.

A minor is normally a three-hour course.

For examination two papers will be set for a major and one for a minor.

## DETAILS OF COURSES

### A—OLD TESTAMENT LANGUAGE AND LITERATURE

#### MAJOR—PART ONE

A critical translation together with all questions of text, introduction, history and religious teachings of:

- (I) Prophets of the Assyrian period, *or*
- (II) Jeremiah and contemporary prophets, *or*
- (III) The Book of Job.

Four hours per week for one session.

#### PART TWO

- (I) The Books of Samuel with special reference to historical sources and the preservation and transmission of the text, *or*
- (II) Sight reading in the historical books, *or*
- (III) Biblical Aramaic.

Two hours per week for one session.

## MINOR

Critical translation and exegesis of:

- (I) Isaiah XI-LXVI, *or*
  - (II) Amos, Micah and Hosea, *or*
  - (III) Messianic prophecies chronologically arranged.
- Three hours per week for one session.

## B—NEW TESTAMENT LANGUAGE AND LITERATURE

## MAJOR

- (I) Text and Canon.  
 Kenyon, *Textual Criticism*;  
 Hort, *The New Testament in Greek* (Introduction);  
 Reading of pages of Uncial facsimiles for practice;  
 Souler, *Text and Canon*, for the Canon or Harnack;  
*Die Entstehung des N. T.*

Two hours per week for the session.  
 Required of all students.

*and*

- (II) Direction in Thesis.  
 One hour per week. In case the thesis is not chosen in this department, this hour will be made up by the reading in Greek of *one* of the texts named in (III) below.

*with*

- (III) Critical Reading in Greek of *two* of these chosen with the advice of the B. D. Committee:  
 John: Acts; Galatians; James; Apocalypse of John; Apostolic Fathers, *Readings*, ed. by Lake.  
 For Reference only:  
 Deissmann, *Light from the Ancient East*;  
 Swete, *Introduction to the Greek Old Testament*—  
 with some readings from the LXX;  
 Burton, *Moods and Tenses*.

Three hours per week.

*or*



## (IV) The Environment of Early Christianity.

## (a) Jewish:

Charles, *Readings from The Apocrypha and Pseudepigrapha*;

Lagrange, *Le Messianisme chez les Juifs*; or Charles, *Eschatology of the Jews*.

## (b) Gentile:

Case, *Evolution of Early Christianity*;

Lake, *Landmarks of Christianity*;

Jackson-Lake, *Beginnings of Christianity* (Vol. I);

Farnell, *Cults of the Greek States* (Readings);

Arnold, *Roman Stoicism*;

Inge, *The Philosophy of Plotinus* (Neo-Platonism);

Three hours per week.

or

## (V) Life of Jesus:

Case, *Historicity of Jesus*;

Schweitzer, *Quest of the Historical Jesus*;

Sanday, *Life of Christ in Recent Research*;

Scott, *The Kingdom and the Messiah*;

Burkitt, *Gospel History and Its Transmission*;

Sanday et al, *Oxford Studies in the Synoptic Problem*;

Lake, *Historical Evidence for the Resurrection of Jesus Christ*;

Streeter et al, *Immortality*;

Wernle, *Sources for our Knowledge of the Life of Jesus*;

Weiss, *Paul and Jesus*; Boussett, *Jesus*.

## MINOR

Text and Canon, as above, and one hour per week from (III), (IV), or (V),

Three hours per week.

## C—ENGLISH BIBLE

## MAJOR

\*Bailey and Kent, *History of the Hebrew Commonwealth*;

\*Price, *Ancestry of the English Bible*;

Peake, *The Bible, its Origin, its Significance, its Abiding Worth*;

Kent, *Origin and Permanent Value of the Old Testament*;

- \*Fairweather, *The Background of the Gospels*;
- Moffat, *The Approach to the New Testament*;
- \*Scott, *The New Testament To-day*;
- Gordon, *The Prophets of the Old Testament*;

Detailed knowledge of the following texts:

- McFadyen, *Isaiah* (in the Bible for Home and School series) ;
- \*Skinner, *Genesis* (Home and School series) ;
- \*Jordan, *Deuteronomy* (Home and School series) ;
- \*G. A. Smith, *The Twelve Prophets* (two volumes) ;
- \*Driver, *Daniel* (Cambridge Bible series) ;
- Scott, *The Fourth Gospel*;
- \*Bosworth, *Romans* (Home and School series) ;
- Hayes, *The New Testament Series*;
- \*Peake or Case, *Book of Revelation*;
- \*Morgan, *The Religion and Theology of Paul*.

#### MINOR

The books marked \*.

### D—SYSTEMATIC THEOLOGY

#### MAJOR

- \*Gerald B. Smith, *Social Idealism and the Changing Theology*;
- \*Morgan, *The Religion and Theology of Paul*;
- Cross, *What is Christianity; A Study of Rival Interpretations*;
- McGiffert, *The Rise of Modern Religious Ideas*;
- Herrmann, *The Christian's Communion with God*;
- Stevens, *The Christian Doctrine of Salvation*;
- \*W. A. Brown, *The Christian Hope*;
- Rauschenbusch, *A Theology for the Social Gospel*.

#### MINOR

Those marked \* and the following:

- W. N. Clarke, *The Christian Doctrine of God*;
- W. A. Brown, *Modern Theology and the Preaching of the Gospel*;
- Coe, *The Religion of a Mature Mind*.



## E—CHURCH HISTORY

## MAJOR

- (I) Selections from the Fathers; Epistles of Ignatius; The Teachings of the Twelve; Justin, *Second Apology*; Irenaeus, Origen, Augustine. Books for reference: *Anti-Nicene Library*, selected passages; Gwatkin, *Selections from Early Christian Writers*; Augustine, *Confessions*; Jackson-Lake, *Beginnings of Christianity*, Vol. I.
- (II) Studies in the Reformation; Costlin, *Life of Luther*; Seebohm, *Oxford Reformers*; Pollard, *Life of Cranmer*.
- (III) History of Protestant Thought in the Nineteenth Century. Moore, *Protestant Thought Since Kant* (with collateral readings).

## MINOR

History of Protestant Thought in the Nineteenth Century. Moore, *Protestant Thought Since Kant* (with collateral readings).

## F—PHILOSOPHY OF RELIGION

## MAJOR

- (I) Galloway, *Philosophy of Religion*, or Fairbairn, *The Philosophy of the Christian Religion*.
- (II) Hopkins, *The History of Religions*.
- (III) Foster, *The Finality of the Christian Religion*.
- (IV) Caird, *Introduction to the Philosophy of Religion*.
- (V) Eucken, *Christianity and the New Idealism*.

## MINOR

- (I), (II), and (V).

## G—RELIGIOUS EDUCATION

## MAJOR

- (I) History of Education, and History of Religious Education.  
     Monroe, *A Brief History of Education*;  
     Cope, *Evolution of the Sunday School*.
- (II) Principles of Religious Education.  
     \*Coe, *Education in Religion and Morals*;  
     \*Coe, *The Social Theory of Religious Education*;  
     \*Betts, *The New Programme of Religious Education*;  
     Betts, *How to Teach Religion*;  
     Snowden, *The Meaning of Education*;  
     \*Cope, *Education for Democracy*.
- (III) Problems of Religious Psychology.  
     \*Pratt, *The Religious Consciousness*;  
     Hartshorne, *Childhood and Character*;  
     \*Stevens, *The Psychology of the Christian Soul*;  
     Mark, *The Unfolding of Personality*;  
     Moxcey, *Girlhood and Character*.
- (IV) Pedagogy of Religious Education.  
     \*Weigle, *The Pupil and the Teacher*;  
     \*St. John, *Stories and Story-telling*;  
     \*Miller, *The Dramatization of Bible Stories*;  
     Meredith, *Pageantry and Dramatics in Religious Education*.
- (V) Materials, Organization and Administration of Religious Education.  
     \*John E. Stout, *The Organization and Administration of Religious Education*;  
     \*Hartshorne, *Manual for Training in Worship*;  
     \*Hutchins, *Graded Social Service in the Sunday School*;  
     Cope, *The School in the Modern Church*;  
     Cope, *The Week Day Church School*;  
     \*C. S. E. T. and C. G. I. T. Manuals and methods.  
     Essays. Review of books.

## MINOR

The courses marked \*.



## H—APPLIED THEOLOGY

## MAJOR

## (I) Homiletics.

\*Faunce, *The Educational Ideal in the Ministry*;

\*Garvie, *The Christian Preacher*;

\*McFadyen, *Old Testament Criticism and the Christian Church*;

Gilbert, *Interpretation of the Bible*.

An essay embodying the results of a detailed study of the life and viewpoint as revealed in the sermons of any one of the following:

F. W. Robertson, Henry Ward Beecher, John Caird, J. H. Jowett, P. Brooks, J. Fort Newton, R. J. Campbell.

Mead, *Modern Methods in Church Work*.

## (II) Social Ethics.

\*Peabody, *The Christian Life in the Modern World*;

\*Kent, *The Social Teachings of the Prophets and Jesus*;

\*Mathews, *The Spiritual Interpretation of History*;  
Park and Burgess, *Introduction to the Science of Sociology*, or Ward, *The New Social Order*.

## MINOR

Those books marked \*.

## EXAMINATION REQUIREMENTS

Requirements for passing are 65% on each paper, and no supplementals are allowed.

## THE THESIS

The thesis topic should be selected by the student in consultation with the Principal of his College and the Head of the Department in which he is taking his major, and then must be submitted to the Committee on B.D. Courses and receive its approval on or before the first day of November preceding the spring in which the degree is to be taken. Candidates are strongly recommended, however, to submit their applications to the Committee before the close of the preceding session. The same rules as to the form of the submitted theses apply as in the case of theses for Master's degrees.







# University of Alberta

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THIRTEENTH ANNUAL CONVOCATION

for the

AWARDING OF PRIZES AND MEDALS

and the

CONFERRING OF DEGREES



Three o'clock, Wednesday afternoon,  
May the sixteenth, nineteen hundred and twenty-three  
Assembly Hall, Main University Buildings.



# Programme

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## ACADEMIC PROCESSION

"O CANADA"

## THE INVOCATION

The Right Reverend Henry Allen Gray, M.A., D.D., LL.D.

## THE ANNUAL REPORT

The President.

## PRESENTATION OF PRIZES AND MEDALS

His Honour, the Lieutenant-Governor of Alberta.

## THE CONVOCATION ADDRESS

John Stanley Plaskett, D.Sc., F.R.S.C., F.R.S.

## PRESENTATION OF DIPLOMAS AND CERTIFICATES

## CONFERRING OF DEGREES

The Petition.

The Presentation.

The Pledge.

The Admission.

## ADDRESS

The Chancellor.

## PRESENTATION OF PORTRAIT

GOD SAVE THE KING

RECESSION

## PRIZES

### THE GORDON STANLEY FIFE MEMORIAL PRIZE

In History: Dorothy Freda Richards and Robert Lincoln Lamb (equal.)

### THE FRENCH PRIZE OF THE COMITE PERMANENT DE LA LANGUE FRANCAIS

Dorothy Freda Richards.

### THE WELLS PRIZE IN FRENCH

Marcel Edmond Jean-Richard.

### THE COTE PRIZE IN FRENCH

Edward Hunter Gowan.

### PRIZES OF THE ASSOCIATION OF PROFESSIONAL ENGINEERS OF ALBERTA

In Civil Engineering: Herbert Douglas Stewart Glen.

In Mining Engineering: William Gladstone Jewitt.

### THE STUTCHBURY RESEARCH PRIZE

William Gladstone Jewitt.

### CANADIAN INSTITUTE OF MINING AND METALLURGY PRIZES

Fourth Year: (Not Awarded.)

## MEDALS

### THE GOVERNOR-GENERAL'S GOLD MEDAL

Andrew Cairns.

### THE LIEUTENANT-GOVERNOR'S GOLD MEDAL FOR THE STUDY OF SHAKESPEARE

(Not Awarded.)

### THE CHARLES ALLAN STUART GOLD MEDAL IN CLASSICS

(Not Awarded.)

### THE ALEXANDER CAMERON RUTHERFORD GOLD MEDAL IN ENGLISH

(Not Awarded.)

### THE WOMEN'S UNIVERSITY CLUB GOLD MEDAL

Donald Hendry Allan

### LE CLUB LAVERENDRYE GOLD MEDAL IN FRENCH

Marcel Edmond Jean-Richard

### THE JOHN A. MCDUGALL GOLD MEDAL

William Gladstone Jewitt.

### THE CHIEF JUSTICE'S GOLD MEDAL IN LAW

George Gerald Logan Moore, B.A.

### THE JAMES RAMSEY GOLD MEDAL IN MATHEMATICS

(Not Awarded.)



MOSHIER MEMORIAL MEDAL  
(Not Awarded.)

THE ALBERTA PHARMACEUTICAL ASSOCIATION GOLD MEDALS  
IN PHARMACY

In the Degree Course: Amy Eleanor Garbutt.  
In the Licentiate Course: Charles Campbell Colpman.

FELLOWSHIP

THE LLOYD HARTNOLL BISHOP MEMORIAL FELLOWSHIP IN  
ENGLISH LITERATURE  
(Not Awarded.)

FIRST CLASS GENERAL STANDING

Faculty of Arts and Sciences

Fourth Year: Harold Ellacott Gray, Thomas William Grindley, Amy  
Eleanor Garbutt.

Faculty of Agriculture

Third Year: Andrew Cairns.

PRESENTATION OF DIPLOMAS

DIPLOMAS IN PHARMACY - 14

Scott, Lola May  
Cameron, George  
Claxton, John Featherstone  
Cohen, Bernard  
Colpman, Charles Campbell  
Douglass, William Ross  
Hawker, William Ernest

Henderson, John Douglas  
Kadlec, Edward  
Lackey, Hamilton Rogers  
Lewis, George Allen  
McPhee, Miles Shatford  
Stiles, Edgar Norman  
Third, Clayton Thomas

ADMITTED TO THE DEGREE OF BACHELOR OF ARTS - 42

Ballantyne, Jessie McIntyre	Edwards, Cedric Gerald
Barker, Lucile	English, John Frederick Kerr
Brownlee, Eva Anne	Gowan, Edward Hunter
Chalmers, Helen Harriet	Gray, Harold Ellacott (with First Class General Standing in Arts and Agriculture)
Dixon, Irma Augusta	Grindley, Thomas William (with First Class General Standing in Arts and Agriculture)
Duclos, Geraldine Florence	Hall, Robert Bruce
Frazer, Irene Beryl	Herbert, Walter Bertram
Geddes, Helen Emma (with Second Rank Honours in Classics)	Jarrett, William Arthur
Hickey, Elizabeth Euphemia	Jean-Richard, Marcel Edmond (with First Rank Honours in Modern Languages)
Hope, Jean Terry	Lamb, Robert Lincoln
MacEachern, Marion Mae	Lukaschuk-Luoren, Henry Roman
MacFarlane, Agnes Winnifred	McClung, John Wesley
McIntyre, Beulah Marie	Moss, Raleigh Walter
MacLennan, Ruth	Muir, Charles Keith
Martin, Edith Mary Forster	Rudd, Frederick Albert
Murray, Mary Augustine	Shankman, Harry
Richards, Dorothy Freda (with First Rank Honours in Modern Lang- uages)	Stewart, Neil McMartin
Shanks, Margaret Stevenson	Wees, Wilfred Rusk (with First Rank Honours in Philosophy)
Simmons, Marjorie	Willis, Ernest MacPherson
Bramley-Moore, Alfred Gordon	
Brown, James	
Bryan, George James	
Churchill, Ernest Leroy (with Sec- ond Rank Honours in Mathema- tics)	

ADMITTED TO THE DEGREE OF BACHELOR OF ARTS, AD EUNDEM - 10

Broadbridge, Rosa Priscilla, B.A.	Walton, Jean Cameron, B.A.
Deadman, Edith Frances, B.A.	Wilkie, Ada, B.A.
Morrison, Barbara Robina, B.A.	Best, Edgar Leslie, B.A.
Morrison, Helen Kathleen, B.A.	Sonet, Edouard, B-es-L.
Shaver, Alice, B.A.	Willis, Charles, B.A.

ADMITTED TO THE DEGREE OF BACHELOR OF COMMERCE - 3

Allan, Donald Hendry	Page, Robert Henry Constant
Palmer, Max Bayard	

ADMITTED TO THE DEGREE OF BACHELOR OF SCIENCE IN ARTS - 11

Dowding, Eleanor Silver	Lang, William Albert
Hegler, Florence Helene	Pegrum, Reginald Herbert
Shaw, Olive Jennie	Mair, Beveridge James (with First Rank Honours in Chemistry)
Simpkin, Melville Mary	Taylor, Geoffrey Bradford (with Second Rank Honours in Physics)
Campbell, William Paton (with Second Rank Honours in Chemistry)	Wilson, George Leslie
Fisher, Harry	

ADMITTED TO THE DEGREE OF BACHELOR OF SCIENCE IN HOUSEHOLD ECONOMICS - 4

Carmichael, Bernice	Raver, Irma Carolyn
McLaughlin, Ione Estelle	Roth, Edna Irene

ADMITTED TO THE DEGREE OF BACHELOR OF SCIENCE IN HOUSEHOLD ECONOMICS, AD EUNDEM

Gladstone, Grace Truman, B.Sc.

ADMITTED TO THE DEGREE OF BACHELOR OF SCIENCE IN PHARMACY - 5

Bennett, Margaret Victoria	Russell, Margaret Barr
Garbutt, Amy Eleanor (with First Class General Standing)	Hardin, Nahum Moses
	Pawling, Henry Murray

ADMITTED TO THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL ENGINEERING - 2

Barnecut, Reginald	Glen, Herbert Douglas Stewart
--------------------	-------------------------------

ADMITTED TO THE DEGREE OF BACHELOR OF SCIENCE IN MINING ENGINEERING - 7

Burgess, Wilfred Duncan	McDonald, William Leslie
Jackson, Alexander Bloomer	Richards, Russell
Jewitt, William Gladstone	Whitman, Frederick Primrose
Hnatyshyn, Andrew Charles	

ADMITTED TO THE DEGREE OF BACHELOR OF SCIENCE IN ENGINEERING PHYSICS - 1

Reid, Charles David

ADMITTED TO THE DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURE - 12

Marryat, Sheila	Elliott, Russell Howard
Biraud, Felix Paul	Huskings, Charles Leonard
Bayfield, Edward Geoffrey	McAllister, John Wilfred
Brown, William Redman	McKinnon, Donald James
Cairns, Andrew (with First Class General Standing)	Richardson, James Wesley
Cross, John Selkirk	Robison, Samuel Clifford



ADMITTED TO THE DEGREE OF BACHELOR OF LAWS - 10

- |  |   |
|--|---|
| <del>-</del> Dobry, Christine Antoinette   | <del>-</del> Henry, Halley              |
| <del>-</del> Duff, Sibella Mary Gwendoline | <del>-</del> Kronick, Israel Robert     |
| <del>-</del> Van Buren, Hazel              | <del>-</del> Jones, James Israel        |
| <del>-</del> Blain, Lysle Kellogg          | <del>-</del> Macdonald, Hugh John       |
| <del>-</del> Clarke, Roy Percy             | <del>-</del> Moore, George Gerald Logan |

ADMITTED TO THE DEGREE OF MASTER OF ARTS - 11

- |  |  |
|--|--|
| <del>-</del> Anderson, Ada Augusta, B.A. | <del>-</del> Broadus, Kemper Hammond, B.A. |
| <del>-</del> Diller, Dorothy, B.A.       | <del>-</del> Hedley, Robert Wesley, B.A.   |
| <del>-</del> Gardiner, Bessie Dow, B.A.  | <del>-</del> McLeod, William Joseph        |
| <del>-</del> Morrison, Barbara, B.A.     | <del>-</del> Race, Cecil Ethelbert, B.A.   |
| <del>-</del> Mulholland, Elsie, B.A.     | <del>-</del> Taylor, John Gladstone, B.A.  |
| <del>-</del> Bosomworth, Hubert, B.A.    |  |

ADMITTED TO THE DEGREE OF MASTER OF SCIENCE IN ARTS

- |   |  |
|---|--|
| <del>-</del> Sanderson, James Owen Gresham, B.Sc. | <del>-</del> Morgan, Stanley Chapin, B.Sc. |
|---|--|

ADMITTED TO THE DEGREE OF MASTER OF SCIENCE IN APPLIED SCIENCE - 1

- ~~-~~ Atkinson, Nelles Henry, B.Sc. (Mining)

ADMITTED TO THE DEGREE OF MASTER OF SCIENCE IN AGRICULTURE - 1

- ~~-~~ Hanna, William Fielding, B.A., B.S.A.

ADMITTED TO THE DEGREE OF BACHELOR OF EDUCATION - 1

- ~~-~~ Laycock, Samuel Ralph, M.A., B.D.

ADMITTED TO THE DEGREE OF BACHELOR OF DIVINITY - 2

- |                                       |  |
|---------------------------------------|--|
| <del>-</del> Bainbridge, Sidney, B.A. | <del>-</del> Kirk, Joseph Elmer, B. A. |
|---------------------------------------|--|

ADMITTED TO THE DEGREE OF DOCTOR OF MEDICINE, AD EUNDEM - 2

- |                          |                                |
|--------------------------|--------------------------------|
| Johnson, George R., M.D. | McBride, Clifford Dawson, M.D. |
|--------------------------|--------------------------------|

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PROFESSIONAL RESULTS

Since Convocation 1922, the following persons have passed the examinations for Licence to Practise, conducted by the University on behalf of the Affiliated Professional Societies:

In December, 1922

ACCOUNTANCY

Donaldson, William  
Ford, H. W.

Longmire, B. C.  
Ross, D. A.

In January, 1923

~~-~~ SURVEYING

Gibbon, James

Snell, C. H.

-43  
In May, 1923

### NURSING

- 1 Anderson, M. A.
- 2 Batter, V.
- de Beaudrop, Sr. Y.
- 4 Boucher, Y.
- 5 Callahan, R. B.
- 6 Boyle, P.
- 13 Girard, L. M.
- 14 Griffiths, M.
- 17 Havens, V. E.
- 18 Hennig, M. M.
- 19 Kerr, T.
- 20 Knight, E. M.
- 21 Krause, A.
- 22 Lamoureux, L. B.
- 23 Landry, A.
- 24 Le Clerc, A. M.
- 26 Love, Mrs. F. A.
- 32 Sandell, A.
- 33 Schumm, A.
- 35 Terry, W. E.
- 37 Vanderaegen, E.
- 38 Warren, O.

- 40 Worthington
- 7 Clapperton, M. A.
- 8 Copley, J.
- 9 Dale, M. U.
- 10 Davies, F. M.
- 11 Field, Mrs. L.
- 12 Gilker, P. A.
- 16 Gow, M. E.
- 15 Good, B. S.
- 16 Hall, V. A.
- 26 Mason, E. E.
- 28 Overton, G.
- 29 Parker, S. M.
- 30 Prette, E. A.
- 31 Robertson, M. M. C.
- 34 Solberg, L.
- 36 Vipond, E. M.
- 39 Williams, I. G.
- 27 Myrthu, E. K.
- 19 Hill, O. G.
- 3 Best, M. E.

### MEDICINE

Woolf, Wilfrid

### OPTOMETRY

Newman, Harold

### PHARMACY

Bennett, A. T.  
Richardson, Sydney

McBride, C. D., M.D.

### SURVEYING

Cormack, A.





# AUTUMN CONVOCATION

*University of Alberta*



*Eight-Thirty o'clock, Friday evening  
October thirteenth, nineteen hundred and twenty-two  
Convocation Hall, Main Bldg.  
University*



# Programme

---

## ACADEMIC PROCESSION

"O CANADA"

## THE INVOCATION

Dean Jackson

## ADDRESS

President Tory

## PRESENTATION OF SCHOLARSHIPS, PRIZES, AND DIPLOMAS

## CONFERRING OF DEGREES

## ADDRESS

The Reverend Frederick William Patterson, D.D.

## ADDRESS

Chancellor Stuart

## GOD SAVE THE KING

## RECESSION

# AUTUMN CONVOCAATION

*University of Alberta*



*Eight-Thirty o'clock, Friday evening  
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University*



# Programme

---

ACADEMIC PROCESSION

"O CANADA"

THE INVOCATION

Dean Jackson

ADDRESS

President Tory

PRESENTATION OF SCHOLARSHIPS, PRIZES, AND DIPLOMAS

CONFERRING OF DEGREES

ADDRESS

The Reverend Frederick William Patterson, D.D.

ADDRESS

Chancellor Stuart

GOD SAVE THE KING

RECESSION

## SCHOLARSHIPS

Scholarships in the Faculty of Medicine offered by the College of Physicians and Surgeons of the Province of Alberta

First Year—General Proficiency: Sydney Kay.

Third Year—Physiology: Alphonse Middleton Crawford.

Third Year—Anatomy, Five Year Course Robert Gordon Douglas,  
Rodger James Hibbard. (Equal).

Third Year—Anatomy, Six Year Course: Miss Leone McGregor.

Scholarships offered by the Alberta Pharmaceutical Association

Degree Course—Third Year: Amy Eleanor Garbutt.

Licentiate Course—First Year: John Featherstone Claxton.

---

## PRIZES

The Jane Alexander Memorial Prizes

In Latin: Barbara Lloyd Villy.

In Geology: Reginald Herbert Pegrum.

The Harold Waldo Huestis Memorial Prize

In English: Barbara Lloyd Villy.

Prizes in Mathematics

In Mathematics 1: Lynwood Arthur Walker.

In Mathematics 3: Aubert Wesley Giffen.

The Vallee French Prize

Louis Adolphe de Savoye

The French Prize of the Societe du Parler Francais

Jack James Saucier.

The French Prize of the Comite Permanent de la Langue Francaise

Sister Josephine Herbreteau.

The Historical Club Prize

Kathleen McNab.



# PRESENTATION OF DIPLOMAS AND CERTIFICATES

## Diplomas in Pharmacy

Schade, Caroline Avaneil

Gaetz, Harold Beaumont

## Certificate in Public Health Nursing

McConaghy, Mabel M. V.

## Admitted to the Degree of Bachelor of Arts

Hall, Robert Bruce

Snider, Edward Cecil

Varnum, Alvin Clarence

## Admitted to the Degree of Bachelor of Arts, Ad Eundem

Cram, Lilian Alberta, B.A.

Marion, George, B.A.

Evans, Alice Emmaline Brittain,  
B.A.

Maugham, Albert, B.A.

Curley, James Wilfred, B.A.

Scott, Clarence Alton, B.A.

Garden, John H., B.A.

Tompkins, Stuart Ramsay, B.A.

Huston, William John Henry,  
B.A.

Yatchen, John, B.A.

## Admitted to the Degree of Bachelor of Science in Arts

Drake, Wray Vernon (with Second Rank Honours in Chemistry)

Manzer, Howard Lee

## Admitted to the Degree of Bachelor of Science in Arts, Ad Eundem

Line, William, B.Sc.

Stick, Edward Moyle, B.Sc.

## Admitted to the Degree of Bachelor of Laws

Atkin, George Douglas

Gibson, Alexander Blacklock

Baker, Addison Graham

Hiebert, John Cornelius

Becker, Charles

Johnston, Harold Clarie

Davies, Jenkin Henry

McGee, Joseph Anthony

Edwards, Manley Justin

Scott, James Frederick

## Admitted to the Degree of Bachelor of Laws, Ad Eundem

Dyde, Henry Alexander, B.C.L.

## Admitted to the Degree of Doctor of Laws, Honoris Causa

The Reverend Frederick William Patterson, D.D.

## SCHOLARSHIPS

Scholarships in the Faculty of Medicine offered by the College of Physicians and Surgeons of the Province of Alberta

First Year—General Proficiency: Sydney Kay.

Third Year—Physiology: Alphonse Middleton Crawford.

Third Year—Anatomy, Five Year Course Robert Gordon Douglas,  
Rodger James Hibbard. (Equal).

Third Year—Anatomy, Six Year Course: Miss Leone McGregor.

Scholarships offered by the Alberta Pharmaceutical Association

Degree Course—Third Year: Amy Eleanor Garbutt.

Licentiate Course—First Year: John Featherstone Claxton.

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In Geology: Reginald Herbert Pegrum.

**The Harold Waldo Huestis Memorial Prize**

In English: Barbara Lloyd Villy.

**Prizes in Mathematics**

In Mathematics 1: Lynwood Arthur Walker.

In Mathematics 3: Aubert Wesley Giffen.

**The Vallee French Prize**

Louis Adolphe de Savoye

**The French Prize of the Societe du Parler Francais**

Jack James Saucier.

**The French Prize of the Comite Permanent de la Langue Francaise**

Sister Josephine Herbreteau.

**The Historical Club Prize**

Kathleen McNab.



# **PRESENTATION OF DIPLOMAS AND CERTIFICATES**

## **Diplomas in Pharmacy**

Schade, Caroline Avanell

Gaetz, Harold Beaumont

## **Certificate in Public Health Nursing**

McConaghy, Mabel M. V.

## **Admitted to the Degree of Bachelor of Arts**

Hall, Robert Bruce

Snider, Edward Cecil

Varnum, Alvin Clarence

## **Admitted to the Degree of Bachelor of Arts, Ad Eundem**

Cram, Lillian Alberta, B.A.

Marion, George, B.A.

Evans, Alice Emmaline Brittain,  
B.A.

Maugham, Albert, B.A.

Curley, James Wilfred, B.A.

Scott, Clarence Alton, B.A.

Garden, John H., B.A.

Tompkins, Stuart Ramsay, B.A.

Huston, William John Henry,  
B.A.

Yatchen, John, B.A.

## **Admitted to the Degree of Bachelor of Science in Arts**

Drake, Wray Vernon (with Second Rank Honours in Chemistry)

Manzer, Howard Lee

## **Admitted to the Degree of Bachelor of Science in Arts, Ad Eundem**

Line, William, B.Sc.

Stick, Edward Moyle, B.Sc.

## **Admitted to the Degree of Bachelor of Laws**

Atkin, George Douglas

Gibson, Alexander Blacklock

Baker, Addison Graham

Hiebert, John Cornelius

Becker, Charles

Johnston, Harold Clarie

Davies, Jenkin Henry

McGee, Joseph Anthony

Edwards, Manley Justin

Scott, James Frederick

## **Admitted to the Degree of Bachelor of Laws, Ad Eundem**

Dyde, Henry Alexander, B.C.L.

## **Admitted to the Degree of Doctor of Laws, Honoris Causa**

The Reverend Frederick William Patterson, D.D.

# Members of Convocation



*April 1923*





## Members of Convocation

---

### A

- Adam, James, B.A. '12 Alta., M.A. '15, 11018 83rd Ave. Edmonton So.  
Adam, James Don, B.A. Alta. '22, 11018 83rd Ave. Edmonton South.  
Adams, S. H., B.A. Mt. Allison 1898, Manitoba 1906, 1340 16A St. N. W.  
Calgary.  
Adamson, Jas. F., M.D. Toronto, 12326 102 Ave. Edmonton.  
Aikins, Sir James A. M., Hon. LL.D. Alta. '21, Government House, Wpg.  
Aldridge, A. R., B.A. Manitoba 1904, 8511 109 St. Edmonton.  
Alfred, Victor, B.A. Sask. '19, LL.B. Alta. '22, Bruderheim, Alberta.  
Allan, John A., Ph.D. Mass. Inst. Tech., University.  
Allen, Rev. W. K., M.A. Toronto 1904.  
Allen, Evangeline Victoria, B.A. Alta. '18, Olds, Alta.  
Allin, Edgar W., M.D., 5th Floor McLeod Bldg.  
Allin, Norman, M.D. Toronto, 502 McLeod Bldg.  
Allison, H.A., LL.B. Dalhousie 1900, 503 4th Ave. W. Calgary.  
Allison, W. B., M.A. Mt. Allison 1905 (deceased).  
Allwork, Chas. Theodore, B.A. Alta. '22, University of Alberta.  
Anderson, G. A., M.D., C.M. Trinity 1900.  
Anderson, Mrs. Palmer (nee A. Rorem), B.A. Alta. '19.  
Anderson, Palmer I., B.A. Alta. '19.  
Anderson, Ethel C., B.A. Alta. '12, 9640 103 Ave. Edmonton.  
Anderson, Esther Irene, B.A. Alta. '20, 9640 103 Ave. Edmonton.  
Anderson, Ernest H., B.A. Alta. '20, M.A. '22, Leduc, Alta.  
Anderson, Ada Augusta, B.A. Alta. '21, 9927 110th St. Edmonton.  
Appleton, Harold, B.A. Alta. '14, Suite 9, Cotter Blk., Fort St. Winnipeg.  
Archer, A. H., M.D. Toronto 1902, Lamont.  
Archer, Jos., LL.B. Alta. '15, Lake Saskatoon, Alta.  
Archer, M. B., B.A. Dublin 1884, New Dayton, Alta.  
Archibald, Margaret Courteen, B.A. Alta. '22, University of Alberta.  
Archibald, S., M.D. Bellevue 1897, 605 McLeod Bldg.  
Armstrong, Geo. D., B.A. McGill 1912, Olds.  
Armstrong, W.M., B.A. Alta. '19, Duke of Connaught H. S., New Westminster, B. C.  
Astrof, Samuel, M.D. McGill 1920, Foremost, Alta.  
Atkin, G. D., LL.B. Alta. '22, Bashaw, Alta.  
Atkin, G. M., M.D. Toronto 1902, Banff.  
Atkinson, Nelles H., B.Sc. Alta. '22, Briquetting Co., Bienfait.  
Aylen, Peter, M.D., C.M. McGill 1896, Fort Saskatchewan.  
Aylesworth, Fred I., B.A. Queens 1902, Olds.  
Aunger, Albert Edw., D.D.S., Stettler.



# B

- Bailey, Kenneth L. G., B.A. Alta. '20.  
 Bailey, Percy S., B.A. Mt. Allison, Edmonton Technical School.  
 Bainbridge, Joseph W., B.A. Alta. '21, M.A. Alta. '22, Albany Ave. Meth. Church, Edmonton.  
 Bainbridge, Sydney, B.A. Alta. '21, Bashaw, Alta.  
 Baker, Addison G., LL.B., Alta. '22, Woods, Sherry & Co., Edmonton.  
 Baker, James, M.D. Western 1900, Leduc.  
 Bakewell, Edna G., B.A. '22, 10806 123 St. Edmonton.  
 Baldwin, Oliver H., B.A. Toronto 1902.  
 Banks, Chas. B.A. Alta. '21, Veteran, Alta. (McGill Med. Fac.).  
 Barnes, S. A. G., B.A. Manitoba, 10817 83rd Ave. Edmonton.  
 Barnes, Mrs. S. A. G., B.A. Manitoba 1902, 10817 83rd Ave. Edmonton.  
 Barnes, Sydney, B.S.A. Alta. '21, Experimental Station, Lethbridge.  
 Barr, The Rev. A., B.D. Alta. '17, Lacombe, Alta.  
 Barnett, John, B.A. 1905, LL.B. 1907 Dalhousie, 10701 University Ave. Edmonton.  
 Barrett, A. P., B.A. Michigan, Box 2012 Calgary.  
 Barron, Jacob B., LL.B. Alta. '16, Barron & Barron, Calgary.  
 Basarab, J. E., LL.B. '22.  
 Batson, Fred, B.Sc. Alta. '20.  
 Bazin, P. J. M., M.A.  
 Beamish, Mrs. W. F. (nee Klyne Moraw), B.A. Alta. '18, Grand Valley, Ont.  
 Begg, Wm. A., LL.B. Dalhousie 1900, Medicine Hat.  
 Beck, Hon. Nicholas, D.D., LL.B. Toronto, 9917 116th St. Edmonton.  
 Beck, C. B., B.A. Trinity, 9917 116th St. Edmonton.  
 Becker, Chas. B.A. Alta. '20, LL.B. '22, 10423 Saskatchewan Drive, Ed.  
 Bell, N. F., B.S.A. '19, Alta., Islay, Alta.  
 Bell, Robt., B.Sc. Alta. '16, McLeod, Alta.  
 Bellamy, Ralph V., B.A. McMaster 1902, 10216 99th Ave. Edmonton.  
 Belyea, Albert P., B.Sc. N. B. 1905, 12424 103rd Ave. Edmonton.  
 Bennett, R. B., LL.B. Dalhousie 1893, 222 4th Ave. Calgary.  
 Bergeron, Patrick J., B.C.L. McGill 1903, 638 Loughheed Bldg. Calgary.  
 Berkov, A., B.Sc. Alta. '15, 216 8 St. N. E. Calgary.  
 Berman, David, B.A., Alta. '21, Faculty of Med. McGill.  
 Berry, William, B.A. '16, M.A. '18 Alta., Ph.D. Chicago '22, Dept. of Psychology, Rochester, N. Y.  
 Best, Jeanette, B.A. Toronto 1907 (deceased).  
 Beveridge, Belle, B.A. Alta. '22, 707 Durham Ave. Calgary.  
 Biggar, J. L., M.B., M.D. Toronto.  
 Biggar, Oliver M., B.A. Toronto 1898, Dept. of Justice Ottawa.  
 Bird, Harry, B.A. Alta. '15, Southampton, N. S.  
 Bishop, E. T., B.A., LL.B. Toronto, 9807 111th St. Edmonton.  
 Bishop, Mrs. E. T., B.A. Toronto, 9807 111th St. Edmonton.  
 Bishop, Chas. W., B.A. Toronto 1904, 15 Toronto St. Toronto.  
 Bissell, Ina Brooks, B.A. Alta. '21.  
 Black, Lois Y., B.A. Alta. '22, University of Alberta.  
 Blackmore, John, B.A. Alta. '13, Raymond, Alta.  
 Black, Geo. P., B.A. Manitoba, Castor, Alta.  
 Blain, Lysle K., B.A. Alta. '21, 11223 100 Ave. Edmonton.  
 Blais, Aristide, B.A. Laval 1899, 9829 113th St. Edmonton.  
 Blaylock, H. W., B.A. Bishops Coll. 1897, B.C.L. McGill 1903.  
 Blayney, Dr. York, B.A. Alta. '12, High River, Alta.  
 Block, Jesse F., B.S.A. 1918, Ed. Bulletin.  
 Blow, Wilda Edith, B.A. Alta. '21, 2104 8 St. W. Calgary.  
 Blue, John, B.A. Toronto 1906, 9713 111th St. Edmonton.  
 Boisseau, P. I. B., M.D.



Bolton, S. E., B.A. Toronto 1898, Burroughs Law Publishers, Calgary.  
 Boness, O. C., B.A. Alta. '15, 106 Adams Bldg. Edmonton.  
 Bosomworth, Rev. H. V., B.A. Alta. '15, Coaldale, Alta.  
 Bowers, Frank Gresty, M.A. Oxon 1889 (deceased).  
 Bowman, Miriam, B.A. '18, M.A. '19, 9917 114 St. Edmonton.  
 Bown, J. C. F., B.A. Toronto 1879, 10006 107th St. Edmonton.  
 Boyce, John F., B.A. Toronto 1895, Red Deer, Alta.  
 Boyd, Canon W. G., M.A. Oxon.  
 Boyd, John, LL.B. Alta. '21, 512 26 Ave. W. Calgary.  
 Boyd, Oliver, M.D., C.M. McGill 1903, Medicine Hat.  
 Boyle, Jas. F., M.D. Toronto 1896, L.R.C.P.&S. Glasgow 1903 (deceased).  
 Brady, Francis, LL.B. Alberta 1918 (deceased).  
 Braithwaite, E. A., M.D. Manitoba, 10014 103rd St. Edmonton.  
 Brander, J. F., M.D., C.M. Queens 1906, 10652 81st Ave. Edmonton.  
 Brebber, Geo. F., D.D.S., Stettler, Alta.  
 Bremner, Chas. C., B.A. '15, M.A. '18, Grande Prairie, Alta.  
 Brett, R. G., B.A., M.D. Victoria 1874, Government House Edmonton.  
 Brett, R. H., M.D. Manitoba 1902, Banff, Alta.  
 Brice, Edward, B.A. Manitoba 1906, 9845 89th Ave. Edmonton.  
 Broad, R. S., M.D. Toronto, 9930 102nd St. Edmonton.  
 Broad, W. E., LL.B. Alberta 1914 (killed in action).  
 Broadus, Kemper H., B.A. Alta. '22, 7441 Saskatchewan Drive, Edmonton.  
 Brokovski, J. C., LL.B. Alta. '14, 1810 5 St. W. Calgary.  
 Brown, John W., B.A. Queens 1901, Medicine Hat.  
 Brown, Leo. B., B.Sc. Alta. '16, Red Deer, Alta. (Home address).  
 Brown, Milton, B.Sc. '13, 1615 14 Ave. W. Calgary.  
 Brown, Thos. L., B.S.A. '18, Vermilion, Alta.  
 Brown, W. Harold, M.D., 10970 100th Ave. Edmonton.  
 Bryan, A. C., B.A. McGill 1888.  
 Bryan, Helen A., B.A. Alta. '22, 7406 22 St., Ogden, Calgary.  
 Bryan, Geo. Jas., B.A. Queens 1888.  
 Bryden, R. B., B.Sc. Alta. '22, 11332 65th St. Edmonton.  
 Bryenton, P. B., LL.B. Alta. '20, McLean Blk, Calgary.  
 Buchanan, J. E., LL.B. Alta. '14, Ft. Saskatchewan, Alta.  
 Buchanan, Nelles V., LL.B., '21, 11408 103 Ave. Edmonton.  
 Buck, Cameron A., B.Sc. Alberta 1916 (deceased).  
 Buckingham, Ernest, B.S.A. Alta. '21, Vermilion, Alta.  
 Buckley, G. F. H., B.S.A. Alta. '20, University of Alberta.  
 Budd, W. S., B.A. '21, Suite 4, Houlton House, Calgary.  
 Burley, A. E., LL.B. Alta. '21, 11139 91 Ave. Edmonton.  
 Bulyea, Geo. H. V., B.A. N.B. 1878, Westminster Apts. Edmonton.  
 Burris, H. L., M.B. Toronto, Vermilion, Alta.  
 Butchart, Harold T., B.Sc. Alta. '22, 10828 79 Ave. Edmonton.  
 Butchart, J. C., B.A. Manitoba, Vegreville, Alta.  
 Butchart, Thelma, B.A. Alta. '22, 10828 79 Ave. Edmonton.

## C

Cain, Ardis R., B.Sc. Alta. '22, Box 4102, Edmonton South.  
 Cain, Pauline U., B.Sc. Alta. '22, Box 4102, Edmonton South.  
 Cain, Miss R. U., B.A. Alta. '19, Lloydminster, Sask.  
 Cairns, L. Y., B.A. Alta. '12, Wallbridge, Henwood & Co., Edmonton.  
 Caldwell, Alex. L., M.D., C.M. McGill 1921, Empress, Alta.  
 Campbell, C. D., B.A. Queens 1896, M.A., B.D. Princeton 1899.  
 Campbell, P. Mc., M.D., Lethbridge, Alta.  
 Card, Gerald, B.A. Toronto 1895, Ft. Smith, Alta.  
 Carmichael, J. E., M.D. Queens, 8654 103rd St. Edmonton.  
 Carpenter, A. A., B.A. Toronto 1894, 10820 125th St. Edmonton.  
 Carr, Fred S., B.A. Toronto 1904, 11050 123rd St. Edmonton.



Carr, A. L., B.A. '12, West Lorne, Ont.  
 Carswell, C. F., B.A. Alta. '15, Rimbey, Alta.  
 Carswell, John A., B.Sc. Alta. '20.  
 Cartwright, Herbert, B.A. '18, Medicine Hat.  
 Casselman, Fred C., LL.B. Alta. '17, Algonquin Apts. Edmonton.  
 Cato, Miss E. A., B.A. Alta. '19, 11017 84 Ave. Edmonton.  
 Chadsey, L. C., B.A. Alta. '22, Med. Fac. McGill.  
 Charlesworth, Gerald S., B.A. Alta. '22, 9930 106 St. Edmonton.  
 Charman, J. H., B.A. 1905, B.C.L. 1907 Dalhousie.  
 Chrystal, Catherine, B.A. '21, Carstairs, Alta.  
 Clark, Giles H., B.A. Alta. '20, 10935 76 Ave. Edmonton.  
 Clark, Mrs. Giles H. (nee Jessie Stewart), B.A. '18, 10935 76 Ave.  
 Clark, H. C., B.A. Alta. '15, University of Alberta.  
 Clark, John A., B.A. Toronto 1896.  
 Clark, John Geo., B.S.A. Alta. '21, Clark Manor, Alta.  
 Clark, Prof. Norman, B.S.A. Alta. '18, Dept. of Chemistry, Iowa State  
 College, Ames, Ia.  
 Clarke, R. P., B.A. Alta. '20, 10503 83 Ave. Edmonton.  
 Clendenan, A. E., M.B. Toronto, 10348 133rd St. Edmonton.  
 Clindinnin, J. M., B.A., 11234 124th St. Edmonton.  
 Clinton, J. P., B.A. Manitoba 1894, 12101 Jasper Ave.  
 Cobb, Lillian, B.A. Alta. '18, 9934 106 St. Edmonton. (Chez. Mme.  
 Bresseau, 76 Rue d'Arras, Paris VI, France, for '22-'23).  
 Cobbett, C. N., M.B., M.S. 1883, M.D. 1890 Edinburgh (deceased).  
 Cobbledick, D. W., LL.B. Alta. '22, 822 Tegler Bldg. Edmonton.  
 Cogswell, Jennie W., M.A. Dalhousie 1896, 11154 84th Ave. Edmonton.  
 Collisson, John, M.D., C.M. McGill 1901, Red Deer, Alta.  
 Collisson, Robt. M.D., C.M. McGill 1878 (deceased).  
 Colter, R. K., B.A. '20, Peace River, Alta.  
 Colwell, T. C., B.A. Alta. '12, Alert Bay, B. C.  
 Condell, Wm. N., M.D., C.M. Queens 1898, 10039 105th St. Edmonton.  
 Conoly, W. J., B.A. Toronto 1895 (deceased).  
 Conybeare, C. F. P., D.C.L. Bishops Coll. 1907, Lethbridge, Alta.  
 Cook, Alex. J., B.Sc. Alta. '20, Harvard University.  
 Cooke, Anna Evelyn, B.Sc. Alta. '21, 9948 86 Ave. Edmonton.  
 Copeland, E. R. R., B.Sc. Alta. '22.  
 Copley, R. J., B.A. Alta. '14.  
 Corbett, Em. M., B.A. Dalhousie 1904, Ft. Saskatchewan, Alta.  
 Corneille, Chris. G., B.A. Toronto 1897, Camrose, Alta.  
 Cory, Mrs. W. C. (nee Gladdis Johnson), B.A. Alta. '20, 460 10 St. Med-  
 icine Hat, Alta.  
 Costello, M. C., B.A., Calgary.  
 Coulter, Howard, LL.B. Alta. '17, Leduc, Alta.  
 Coulter, J., B.A., 1339 8th Ave. E. Calgary.  
 Cousins, Frank C., B.A. Alta. '22, Law Fac. U. of Sask.  
 Coutts, Rev. Jas. A., B.A. Manitoba.  
 Cowan, Kate S., B.A. Alta. '22, 9908 108 St. Edmonton.  
 Cowper, Alfred D., M.Sc. Alta. '16.  
 Craig, Horace A., B.S.A. Toronto 1906, 9838 113th St. Edmonton.  
 Craig, W. Dixon, LL.B. '17, 8607 104 St. Edmonton.  
 Cram, Lillian A., B.A. Mt. Allison 1921, 9817 107th St. Edmonton.  
 Crawford, J. W., LL.B. Alta. '15, Royal Bank Chambers, Calgary.  
 Crawford, Mary, B.A. Toronto 1911, LeMarchand Apts. Edmonton.  
 Crilly, Alice M., B.A. Toronto, Lamont, Alta.  
 Crockett, W. M., LL.B. Alta. '17, Youngstown, Alta.  
 Cross, Chas. W., B.A., LL.B., Toronto 1895, 12729 Stony Plain Rd. Ed.  
 Crotty, Sr. P., B.A.  
 Cruikshank, Gen. E. A., LL.D. Alberta 1916, Ottawa, Ont.  
 Culeriev, Rev. L., B.A.  
 Cuming, Ruth, B.A. Dalhousie 1900 (deceased).



Cumming, L. H., LL.B. Dalhousie 1900 (deceased).  
 Cunningham, J. H., B.A.  
 Cunningham, J. W., B.A. Toronto 1902.  
 Curley, J. W., B.A. Laval 1921, St. Johns Juniorate, Edmonton.  
 Curtis, C. A., M.Sc. Alberta 1911 (deceased).  
 Cushing, A. B., B.A. Toronto 1893, Manitoba 1899, 220 18th Av. E. Cal.  
 Cushing, A. T., B.A. Toronto 1898, 12210 109th A. Ave. Edmonton.

## D

Dafoe, L. G., LL.B. '21, Hyndman, Milner & Matheson, Edmonton.  
 Dake, Beatrice, B.A. Alta. '21, Cereal, Alta.  
 Danard, Emma V., B.A. Toronto 1904, Bruderheim, Alta.  
 Daridon, Rev. A. A., B.A.  
 Daly, W. E., B.A. Royal, Ireland 1890, LL.B. 1900, LL.D. 1903.  
 Davidson, J. R., B.A. Alta. '21, 708 Crescent Rd. Calgary.  
 Davidson, R. R., LL.B., Alta. '14, Conybeare, Church & Davidson, Leth-  
 bridge.  
 Davidson, W. M., B.A. Toronto 1893, 708 Crescent Rd. Calgary.  
 Davidson, Walter, B.A. Alta. '13, 308 N. Michigan Ave. Chicago.  
 Davies, C. A., B.M., C.B. Victoria 1893, M.D. 1899, Content, Alta.  
 Davies, John H., LL.B. Alta. '22, Rochester Theological Seminary.  
 Davis, E. N., B.A. Alta. '22, Medicine Hat.  
 Davison, John R., B.A. Toronto 1905, Allenford, Ont.  
 Dawson, H. R., LL.B. Alta. '22, 1116 12 Ave. W. Calgary.  
 Day, Fred G., LL.B. Alta. '20, 107 C. P. R. Bldg.  
 Dean, Harold, B.A. Alta. '14, Lloydminster, Sask.  
 d'Easum, Canon G. C., M.A. Manitoba 1898.  
 Delestre, Rev. L., Ph.D., Camrose, Alta.  
 Demorest, Clara, M.D. Queens 1890.  
 de Savoye, Etienne, LL.B. Paris, University of Alberta.  
 Devaney, Thos., LL.B. Alta. '18.  
 Dickins, Francis, B.A. Alta. '20, LL.B. '22, 10018 115 St. Edmonton.  
 Dickson, Trenholme, B.A. 1894, B.C.L. 1899 McGill, Algonquin Apts. Ed.  
 Dickson, S. A., B.A. Toronto 1899, 11309 99th Ave. Edmonton.  
 Dickson, Mrs. S. A., B.A. Toronto 1905, 11319 99th Ave. Edmonton.  
 Diller, Dorothy, B.A. Alta. '22, 31 Bernard Blk. Edmonton.  
 Dixon, Wm., M.B. Toronto 1904, 10710 98th Ave. Edmonton.  
 Dobry, Chris. B.A. Alta. '21, 10023 116 St. Edmonton.  
 Dobson, H. E., M.A. McMaster 1912, Norwood School, Edmonton.  
 Dobson, R., B.A. Alta. '11, M.A. '14, Hanna, Alta.  
 Dobson, P. C., B.A. Toronto 1900.  
 Dobson, Wm., B.A. Queens 1909.  
 Dodge, Mrs. F. J. (nee Edith McKinnon), B.Sc. Alta. '20, Spirit Ri, Alta.  
 Donald, W. B. L., M.B. Toronto 1900, Peace River, Alta.  
 Donaldson, Arthur, B.Ss. '22, 9847 110 St. Edmonton.  
 Doughty, J. L., B.S.A. Alta. '21, University of Alberta.  
 Douglas H. W. B., B.A. Manitoba 1898, 9933 116th St. Edmonton.  
 Downes, G. F., B.A. Toronto 1888, 8721 101st St. Edmonton.  
 Doze, J. W., B.Sc. '13, Beaver Hills, Alta.  
 Drake, Wray Vernon, B.Sc. Alta. '22, University of Alberta.  
 Draper, Walter, B.Sc. Alta. '13, Dist. Engineer, C. N. R. Edmonton.  
 Drysdale, J. R., B.A. '12, Cormack & Drysdale, Empire Blk. Edmonton.  
 Dubuc, Lucien, B.A., Manitoba 1896, 11302 100th Ave. Edmonton.  
 Duncan, Grace H., B.A. Alta. '20, 8520 104 St. Edmonton.  
 Dunham, Aileen, B.A. Alta. '20.  
 Dunham, Frank, B.A., Camrose.  
 Dunham, Walker, B.A. Alta. '20, Pembroke Col. Oxford.



Dunlop, D. R., M.B. Toronto 1900, 1205 19th Ave. W. Calgary.  
 Dunn, D. J., M.D., C.M. Trinity 1893, 10134 123rd St. Edmonton.  
 Dunne, Patrick A., LL.B. Alta. '21, Casselman & Co., Tegler Bldg., Ed.  
 Durie, C. L., B.A. Queens 1899.  
 Dyde, Miss Christine, B.A. Alta. '14, Camrose Normal School.  
 Dyde, Henry Alex., B.A. Alta. '16, B.C.L. Oxon '22, LL.B. Alta. '22,  
 Weaver & Steer, Edmonton.  
 Dyde, Dr. S. W., LL.D. Alberta 1915, 140 Union St. Kingston, Ont.  
 Dyde, W. Farrell, M.A. Alta. '11.  
 Dymond, S. J., B.A. Alta. '16, Crescent Hts. H. S. Calgary.  
 Dyson, Mrs. Albert (nee Blanche McLaughlin), B.A. Alta. '14, 14618  
 Summit Ave. Edmonton.

## E

Edgar, John, B. A. Alta. '15, M.A. '16, Sedgewick, Alta.  
 Eager, Martin W., LL.B. Dalhousie 1905.  
 Eaton, E. Scott, B.A., Success Business College, Vancouver.  
 Edmonds, Rev. W. E., B.A. Manitoba 1902, M.A. Queens 1910, 11146  
 91st Ave. Edmonton.  
 Edwards, Helen S., B.A. Alta. '19, University of Alta.  
 Edwards, Col. E. B., M.A. LL.B. Toronto 1871 (deceased).  
 Edwards, Manly J., LL.B. Alta. '22, Adams & Fitch, Union Bk. Bldg. Cal.  
 Edwards, O. C., M.D. (deceased).  
 Edworthy, Silvanus, B.A. Alta. '22, 9614 76 Ave. Edmonton.  
 Egbert, W. G., LL.B. Alta. '17, 521 17 Ave. W. Calgary.  
 Einarson, Gisli, B.Sc. Alta. '21.  
 Ellis, Geo. E., B.A. Queens 1901, Prince Albert, Sask.  
 Elton, David H., LL.B. Alta. '14, Lethbridge.  
 Emery, Howard T., B.A. '20, LL.B. '22, 1722 Mass. Ave. Cambridge, Mass.  
 Empey, John M., B.Sc. Toronto 1903.  
 Erdman, Nathalie, B.A. Alta. '17, Barons, Alta.  
 Evans, Alice E., B.A. Oklahoma 1907, Lloydminster, Sask.  
 Evans, H. M. E., B.A. Toronto 1897, Stony Plain Rd. and 127th St. Ed.  
 Evans, R. W., B.A. Alta. '22, Foam Lake, Sask.  
 Ewing, A. F., B.A. Toronto 1896, Bank of Toronto Bldg. Edmonton.

## F

Facey, Mrs. W. D. (nee Cora Armstrong), B.A. Alta. '17.  
 Fairley, Mrs. Barker, B.A. Alta. '13, care University of Toronto.  
 Farquharson, Dr. W. O., B.A. Dalhousie 1900, M.D., C.M. 1904, 10220  
 124th St. Edmonton.  
 Farr, Mrs. E. S., B.A. Toronto 1913, Grande Prairie, Alta.  
 Farr, E. S., LL.B. Toronto 1915, Grande Prairie, Alta.  
 Fawcett, J. L., LL.B., MacLeod, Alta.  
 Ferguson, Kathleen, B.A. Alta. '20, 1117 13 Ave. W. Calgary.  
 Ferguson, S. C., B.A. Alberta 1915 (killed in action).  
 Ferguson, T. J. S., B.A. Queens 1898.  
 Fergusson, Lola, B.Sc. Alta. '22, R. R. 1, Edmonton.  
 Ferrier, Dr. W. F., D.Sc. Alta. '15, 34 Admiral Road, Toronto.  
 Ferris, Mrs. W. D., B.A. Toronto 1898, 12704 102nd Ave. Edmonton.  
 Ferris, Dr. W. D., M.B. Toronto 1898, 12704 102nd Ave. Edmonton.  
 Fetter, Roy E., B.A. Alta. '22, 923 9 St. S. Lethbridge.  
 Field, Clarence V., Phm.B., M.D., C.M. Toronto 1897, L.R.C.P.S. Edin &  
 and Glas. 1906 (deceased).



Fieldhouse, Henry V., B.A., LL.B. Manitoba 1900, Wainwright, Alta.  
 Fife, Jas. A., B.A. Tor. '86, M.Sc. Alta. '11, Rene LeMarchand, Ed.  
 Fife, Walter Maxwell, B.Sc. Alta. '13, M.S. Mass. Inst. Tech. '22, Dept.  
     Civil Eng. M. I. T., Boston, Mass.  
 Flack, G. L., B.S.A. Alta. '19, M.A. '20.  
 Fleming, David, B.A. Queens 1887, Dauphin, Man.  
 Fleming, W. M., B.S.A. '19, Duncan, Vancouver Island.  
 Fleming, W. S., B.A. Queens 1905, 7300 105A St. Edmonton.  
 Flint, C. D., B.Sc. '15, New Norway, Alta.  
 Folinsbee, Francis J., M.D. Western, 10022 108th St. Edmonton.  
 Forbes, Alex., B.A. Aberdeen, Grande Prairie, Alta.  
 Forbes, Mrs. J. N. (nee Carrie Pheasey), B.A. Alta. '17, 10633 124 St. Ed.  
 Ford, Francis A., B.A. Alta. '22, 12410 103 Ave. Edmonton.  
 Ford, Frank, D.C.L., 12410 103rd Ave. Edmonton.  
 Forester, Edith, B.A. Queens 1912, 20 Derwas Court, Edmonton.  
 Forin, Alex., M.D. Queens 1888, 10148 112th St. Edmonton.  
 Forsey, R., B.A., Mewassin, Alta.  
 Forshaw, Rev. Wm., B.A. '17, Sibbald, Alta.  
 Forster, H. E., LL.B. Alta. '15, Lougheed, Bennett & Co. Calgary.  
 Forster, R. P., B.A. Alta. '20.  
 Fortune, Rev. W. G., B.A. Toronto 1900, 1436 11th Ave. W. Vancouver.  
 Forsythe, R. B., B.A. Dalhousie 1905.  
 Fox, Miss Roberta K., B.A. Western 1904, Lacombe, Alta.  
 Frame, W. E., B.A. Alta. '22, Youngstown, Alta.  
 Francis, A. C., B.A. Alta. '22, Lanuke, Alta.  
 Francis, S. A. M., B.Sc. Alta. '20, Collegiate Instit. San Metro, Calif.  
 Fraser, Elizabeth, B.A. '20, 9734 111 St. Edmonton.  
 Fraser, G. E., LL.B. Alta. '14, Grande Prairie, Alta.  
 Fraser, H. B., LL.B. Alta. '20, Medicine Hat.  
 Fraser, Lila M., B.Sc. Alta. '21, General Hospital, Vancouver.  
 Fribance, Mrs. Harold (nee Edna Carmichael), B.A. Alta. '16, Puffer, Alta.  
 Fulton, James, B.A. '18.  
 Fulmer, Edith, B.A. Alberta 1915 (deceased).  
 Fuog, Agnes H., B.A. Alta. '21, 11162 78 Ave. Edmonton.

## G

Gaetz, Howard, B.Sc. Alta. '21.  
 Gaetz, Mrs. Howard (nee Gwynnfred Craig), B.A. Alta. '20.  
 Gaetz, John R., B.S.A. Alta. '22, Red Deer, Alta.  
 Gainer, Mrs. Chester (nee Ruby Clements), LL.B. Alta. '16, 11142 90  
     Ave. Edmonton.  
 Gainer, Mrs. Mabelle F., B.A. Acadia 1903, 10033 83rd Ave. Edmonton.  
 Galbraith, W. M., M.D., C.M. McGill 1899, Lethbridge.  
 Galbraith, Jessie H., B.A. Toronto, Red Deer, Alta.  
 Galloway, Minnie, B.A. Alta. '21, 1111 Nelson St. Vancouver.  
 Garden, John H., B.A. Toronto 1917, Tudor, Alta.  
 Gardiner, Bessie D., B.A. Alta. '21, University of Alberta.  
 Gardiner, Elmslie, B.Sc. Alta. '22, MacLeod, Alta.  
 Garipey, Hon. Wilfrid, B.A. Laval '99, B.C.L. McGill '02, Three Rivers,  
     Que.  
 Garrison, Daphne, B.A. Alta. '22, Westlock, Alta.  
 Garsides, Thos. E., LL.B. Alta. '21, 9730 88 Ave. Edmonton.  
 Gaunt, R. J., B.A. Alta. '14, Athabasca, Alta.  
 Geeson, Rev. John, B.A. Alta. '15, B.D. '20.  
 Gerber, C. C., B.A. Alta. '21.  
 Gibson, A. B., LL.B. Alta. '22, 317 38 Ave. W. Calgary.



Giffen, Andrew, B.Sc. Alta. '22, 11024 85 Ave. Edmonton.  
 Giffen, Blanche, B.A. Alta. '22, 11024 85 Ave. Edmonton.  
 Gilbert, H., B. A., LL.B. Royal University.  
 Gilbert, Verner, B.D. Alta. '17, Bow Island, Alta.  
 Gillespie, Dr. A., M.D., C.M. Trinity 1884, 10174 107th St. Edmonton.  
 Gillespie, J. J., M.D., C.M. Queens 1904, Pincher Creek, Alta.  
 Gillespie, Wm. F., B.A. Alta. '14, M.A. '21, M.B. Tor., Housemen's Quarters, General Hospital, Toronto.  
 Glanville, A. T. M., B.A. Alta. '14, LL.B. Alta. '21, St. Paul de Metis, Alta.  
 Glenn, John S., B.A. Alta. '14, Cardston, Alta.  
 Glover, J. B., B.A. Alta. '21.  
 Gold, Margaret, B.A. Alta. '18, 11208 126 St. Edmonton.  
 Good, Lorne, B.Sc. Alta. '22, Didsbury, Alta.  
 Gordon, Clarke L., B.A. Alta. '22, Box 7, Stavely, Alta.  
 Gow, Dr. Duncan, M.D., C.M., Trinity 1884, 840 15th Ave. W. Calgary.  
 Graham, Dr. N. F. W., B.A. Alta. '15, Prov. Lab., Sault Ste. Marie.  
 Graham, Mrs. N. F. (nee Gwynnthe Tuttle), B.A. Alta. '15, M.Sc. '17, Prov. Lab., Sault Ste. Marie.  
 Grant, A., B.A., 10534 126th St. Edmonton.  
 Grant, Chas. A., B.A. McMaster 1902 (killed in action).  
 Gray, Rt. Rev. Henry Allen, B.A. Manitoba, LL.D. Alberta 1915, Bishop of Edmonton, 10049 103rd St. Edmonton.  
 Gray, Francis W., B.A. Alta. '21, Wayne, Alta.  
 Green, Evan, M.D., M.S. McGill 1899, 8231 106th St. Edmonton.  
 Green, Sr. Mary, B.A.  
 Grigg, Mrs. A. R. P., M.A. (deceased).  
 Grigg, W. J., B.A. McMaster 1905.  
 Grimmett, Tom T., LL.B. Alta. '21, 11128 86 Ave. Edmonton.  
 Gunn, Clive Gordon, M.B. Toronto, Staff Surgeon, Rideau Hall, Ottawa.  
 Guyatt, Rev. R. E., M.A. McMaster 1904.

## H

Hagerman, Thos. H., B.S.A. Alta. '19, Parkland, Alta.  
 Haig, Jas. B., B.A. Manitoba 1903.  
 Haines, Mrs. (nee Doris C. Smith), B.A. Alta. '18, 11305 88 St. Ed.  
 Hall, John S., B.A. McGill 1874, B.C.L. 1875 (deceased).  
 Hall, Mildred, B.A. Alta. '21, Olds, Alta.  
 Hallman, A., B.Sc. Alta. '15, Dahlen, Sask.  
 Hallman, A. C., B.S.A. Toronto 1902, Acadia Valley, Alta.  
 Hamilton, A. R., B.A. Toronto 1897, LL.B. 1903 (deceased).  
 Hamilton, Edith, B.A. Alta. '18, University of Alberta.  
 Hamilton, Geo. H., B.A. '20, 734 14 Ave. E. Vancouver.  
 Hamilton, Jessie M., B.A. Alta. '21, 48 Ruby St. Wpg.  
 Hamilton, J. E., B.A.  
 Hamilton, Stuart Perry, B.A. Alta. '21, 8576 104 St. Edmonton.  
 Hamilton, Wm. T., M.B., 1901, B.A. 1904 Toronto.  
 Hammond, John Ralph, B.A. Alta. '15 (killed in action).  
 Hanna, W. F., B.S.A. Alta. '22, 10224 106 St. Edmonton.  
 Harcourt, Geo., B.S.A., Toronto 1899.  
 Hardisty, Mrs. E., B.A. Minn. 1907.  
 Hargrave, Ralph C., B.A. Alta. '12, M.Sc. '14, Redcliffe, Alta.  
 Harlow, Milton W., B.A. Alta. '14, M.A. '16, Ashton Dale, Landour, India.  
 Harper, R. J., B.A. McGill 1901.  
 Harrison, A. G., B.A. N.B. 1891, C.E. 1893, 10813 100th Ave. Edmonton.  
 Harrison, W. G., B.A. Toronto 1900, 9829 108th St. Edmonton.  
 Harrison, Dr. J. D., B.A., N.B. 1887, M.A. 1889, M.D., C.M. McGill 1891. 10033 106th St. Edmonton.



Hart, Thos., B.Sc. Alta. '22, Alta. Col. South.  
 Harvey, Alan B., B.A. '19, Balliol College, Oxford.  
 Harvey, Eric L., LL.B. Alta. '16, Ford, Miller & Harvey, Calgary.  
 Harvey, The Hon. Horace, B.A. Toronto 1886, LL.B. 1888, Connaught Drive, Edmonton.  
 Harwood, Col. R. de L., M.D., C.M. McGill 1895.  
 Hayes, Arthur E., B.A. '16, 1106 123 St. Edmonton.  
 Henderson, Flossie, B.A. '20, 10752 85 Ave. Edmonton.  
 Henderson, T. B. R., B.S.A. Toronto (deceased).  
 Henry, Wm. A., B.A. Alta. '21, Med. Fac. McGill.  
 Henwood, Geo. B., B.A. Toronto 1896, 10224 129th St. Edmonton.  
 Herdman, Rev. J. C.J., B.A. Dalhousie 1874, B.D. Edinburgh 1877, M.A. Dalhousie 1878, D.D. Knox Coll. 1901 (deceased).  
 Hewetson, S. W., M.D., C.M. McGill 1893, Pincher Creek, Alta.  
 Hibbard, Roger J. B., B.A. '21, Med. Fac. McGill.  
 Hibbard, Avis, B.A. Alta. '21, 332 12 Ave. N. Calgary.  
 Hickey, Sr. A., B.A. '16, Convent F. J. C., 110 St. Edmonton.  
 Hiebert, J. C., LL.B. Alta. '22, Nanton, Alta.  
 Hill, Esther A., B.A. Alta. '17, 209 Huron St. Toronto.  
 Hill, E. I., M.Sc. Alta. '11, 11034 83 Ave. Edmonton.  
 Hill, Jennie S., M.A. Alta. '11, 11034 83 Ave. Edmonton.  
 Hillerud, S. O., B.S.A. '20, Claresholm, Alta.  
 Hillocks, Samuel, LL.B. Alta. '19.  
 Hipkin, Geo. A., B.A. Alta. '15, Bashaw, Alta.  
 Hislop, John, M.D. Manitoba 1900, 10034 105th St. Edmonton.  
 Hobson, Mrs. Elmina, B.A. Toronto 1898, Rose Cottage, Royal Oak, Victoria, B.C.  
 Hoffman, M.L., B.A.  
 Hogg, Andrew, LL.B. Alta. '17, Lethbridge.  
 Hollies, Edward G., B.A. Alta. '21, 2120 17 Ave. W. Calgary.  
 Hollies, Mary, B.A. Alberta 1919 (deceased).  
 Hollies, Robt. T., B.Sc. Alta. '20, M.Sc. '21, 11049 University Ave. Ed.  
 Holmes, Gladys V., B.Sc. Alta. '21, Lamont, Alta.  
 Holmes, Geo. H., B.A. Alberta 1915 (deserter from C. E. F.).  
 Hopkins, M. W., B.A.Sc. McGill 1888.  
 Horricks, H. M., B.A. McMaster, Daysland, Alta.  
 Hosford, Samuel R., B.A. Alberta 1915 (killed in action).  
 Hotchkiss, C. P., B.Sc. Alta. '13.  
 Hotson, Helen J., B.Sc. '20, Lacombe, Alta.  
 Hotson, Dr. John M., M.D. Western 1888, 8231 101st St. Edmonton.  
 Hotson, Marjorie, B.Sc. Alta. '19, Lloydminster, Alta.  
 Howard, Rev. W. J., B.A. Mt. Allison 1888, B.D. 1897, Lamont.  
 Howeroft, Rev. Canon, B.A. Kings Coll. 1893, M.A. 1898, Camrose, Alta.  
 Howson, W. R., B.A., LL.B. '15, Parlee, Freeman & Howson, Edmonton.  
 Hoyle, Rev. C. C., M.A. Durham 1899.  
 Huestis, Rev. C. A., B.A. Mt. Allison, M.A. McGill, Red Deer, Alta.  
 Hughson, Rev. J. E., B.A. Toronto, Grace Church, Winnipeg, Man.  
 Hugill, J. W., LL.B. Manitoba, 828 20th Ave. W. Calgary.  
 Hull, Mildred, B.A. Alta. '20, 10632 103 St. Edmonton.  
 Hunter, Jas. A., B.S.A. '20, Algonquin Apts. Edmonton.  
 Hurlburt, Mrs. S. (nee Helena Barclay), B.A. Alta. '15, Vegreville, Alta.  
 Huston, W. J. H., B.A. Toronto 1920, Athabasca, Alta.  
 Husband, Lillian, B.A. '21, Onoway, Alta.  
 Hustler, Geo. F., B.A. Alta. '22.  
 Hutchison, Alice, B.A. Toronto 1910, Grande Prairie, Alta.  
 Hutton, Gladstone H., B.S.A. Toronto, Lacombe, Alta.  
 Hutton, Mrs. W. W., B.A., 11118 87th Ave. Edmonton.  
 Hyde, E. E., M.A. Alta. '22, 11615 84 St. Edmonton.  
 Hynes, Dr. Wm. T., M.D., C.M. McGill 1903, Lacombe, Alta.



# I

Irving, L. E., M.D., C.M. Trinity 1900.

# J

Jackson, Genevieve, B.A. Alta. '21, University of Alberta.  
 Jackson, J. A., B.A. Toronto 1897, Ponoka, Alta.  
 Jackson, Jos. L., B.A. Alta. '15, M.A. '16, M.D., C.M. McGill '22, 601  
 Tegler Bldg. Edmonton.  
 Jackson, L. B., B.A. Toronto 1907, Barrister, Camrose.  
 Jackson, Roy C., B.A. Alta. '15, Tegler Bldg. Edmonton.  
 Jacobs, Zebulon, LL.B. Alta. '17, Cardston, Alta.  
 Jacobson, Wm., B.S.A. '20, Stettler, Alta.  
 Jaffray, John A., B.A. Toronto 1882, 9923 109th St. Edmonton.  
 Jaffray, James K., B.Sc. Alta. '16, 513 8 Ave. W. Calgary.  
 Jaffray, Stuart K., B.Sc. Alta. '21, 9923 109 St. Edmonton.  
 James, Nellie, B.A. Alta. '21, Ponoka H. S.  
 Jamieson, Chas. F., LL.B. Dalhousie, Lethbridge, Alta.  
 Jamieson, Dr. C. V., M.B. Toronto, Connaught Drive, Edmonton.  
 Jamieson, A. E., D.D.S., 10131 124th St. Edmonton.  
 Jampolsky, Moses, B.A. McGill, M.A. Alta. '22.  
 Jarvis, Jos., M.D. Victoria 1887, Calgary.  
 Jefferson, Robt. B.A. Royal.  
 Jenkins, Mary Annie, B.A. Toronto 1892, M.A. 1904.  
 Jenkins, Robt. S., B.A. Toronto 1893, M.A. 1896.  
 Jephson, John P. J., B.A. Cambridge 1876, 1839 1st St. E. Calgary.  
 Johnston, A. C. C., M.D., Lundbrek, Alta.  
 Johnston, Harold C., LL.B. Alta. '22, 920 18th Ave. W. Calgary.  
 Johnston, Jasper P., B.S.A., Toronto.  
 Johnston, Rev. T. J., B.A. Man. 1897, M.A. 1904, B.D. Wesley Coll. 1901,  
 Saskatoon.  
 Jones, B. M., B.C.L. Trinity 1890 (deceased).  
 Jones, David, B.A. St. Davids Coll. (deceased).  
 Jones, John Thomas, B.A. Alta. '22, 10953 89 Ave. Edmonton.  
 Jones, I. W., B.A. Alta. '22, 10953 89 Ave. Edmonton.  
 Jones, Stanley I., B.A. Acadia 1897.  
 Judge, Mrs. John (nee Margaret Menzies), B.A. Alta. '14, 11330 94 St..  
 Edmonton.

# K

Kane, E. W. S., B.A. Alta. '20, LL.B. '22, Short, Cross & Co. Edmonton.  
 Kask, Mary K., B.A. Alta. '22, Box 779 Prince Rupert, B. C.  
 Kaufman, V. S., M.B. Toronto, 11027 87th Ave. Edmonton.  
 Keen, Dr. W. H., M.D. Western 1904, Nanton, Alta.  
 Keffer, C. R. A., B.A. Trin. 1905.  
 Keith, Helena D., B.A. Alta. '22, 10958 81 Ave. Edmonton.  
 Keller, E. G., B.A. Alta. '18, Axtell, Kansas.  
 Kelly, John James, LL.B. Alta. '17, Oyen, Alta.  
 Kelly, Mrs. M. C., B.A.  
 Kelly, Wm. A., B.A. '21, 10032 116 St. Edmonton.  
 Kelly, W. J., B.A., 11131 65th St. Edmonton.  
 Kemp, Arthur T., B.S.A. Alta. '22, School of Agric. Olds, Alta.  
 Kempton, Heries L., B.A. Acadia 1900, Vermilion, Alta.  
 Kennedy, Geo. A., M.B. Toronto 1873 (deceased).



Kent, Don C., B.Sc.  
 Kerby, Rev. G. W., B.A. Victoria 1888, Calgary.  
 Kerr, Helena M., B.A. Alta. '22, 5260 5 Ave. Medicine Hat.  
 Kerr, Malcolm S., B.A. Alta. '16, Ft. Saskatchewan, Alta.  
 Kettles, G. A., B.A. Alta. '12, Chinook, Alta.  
 Kidd, Gordon L., B.Sc. '16, Drumheller, Alta.  
 Kinderwater, Wm. J., B.A. Dubuque Coll. 1917, Grande Prairie, Alta.  
 Kirk, Jos. E., B.A. Alta. '21, Wellsdale, Alta.  
 Knight, R. H., B.A.Sc. Toronto, 11115 86th Ave. Edmonton.  
 Knight, Mrs. R. H., B.A. Toronto, 11115 86th Ave. Edmonton.  
 Koenig, Daphne, B.A. Alta. '22, Delia, Alta., Ed. Normal School.  
 Kostash, Harry A., B.A. Alta. '21, Smoky Lake, Alta.

## L

Lackey, Miss A. M., B.A. Alta. '19.  
 Lacombe, Rev. A. L., M.A.  
 Lafferty, J. D., M.D. Queens 1871.  
 La Fleche, Helene, B.A. Alta. '22, 10831 80 Ave. Edmonton.  
 Laidlaw, W. C., M.B. Toronto 1895, 11124 85th Ave. Edmonton.  
 Laidman, Chas. C., B.A. Manitoba, B.D. Wesley 1905, Tofield, Alta.  
 Lake, Ethel M., M.A. Alta. '20, c. o. Y. W. C. A. Vancouver, B. C.  
 Lamont, Rev. P. J., M.A., Red Deer, Alta.  
 Lane, Isaac, M.D., C.M. Queens 1886 (deceased).  
 Lang, G. R., B.A. Queens 1885, Vegreville, Alta.  
 Langdon, Geo. H., B.A. McMaster 1903.  
 Lannan, Alphonsus, LL.B. Alta. '17, Lunney & Lannan, Calgary.  
 Latornell, A. J., B.A.Sc. (killed in action).  
 Laycock, S. R., M.A. Alta. '16, B.D. '20, University of Alberta.  
 Lavell, Jno. R., B.A. Queens 1877, 10133 Sask. Drive, Edmonton.  
 Lavell, W. H., M.D., C.M. Queens 1905.  
 Law, A. J., B.A. Alta. '11, Coaldale, Alta.  
 Lawford, Chas. A. H., M.D. Manitoba 1900, Pakan, Alta.  
 Lawlor, Thos. W., LL.B. Alta. '21, Spirit River, Alta.  
 Lawrence, Bertha, B.A. Alta. '21, 11532 125 St. Edmonton.  
 Learmouth, Dr. G. E., M.D., High River, Alta.  
 Leaver, H. R., B.A. Alta. '15, M.A. '18, 10915 74 Ave. Edmonton.  
 Le Blanc, J. J., B.A. St. Anne's 1900, Arlington Apts. Edmonton.  
 Legal, Rev. E. J., B.A. Laval, LL.D. Alberta.  
 Legg, Calvin L., B.A. Alta. '14.  
 Lehmann, Dr. A. F. L., Ph.D. Leipsig, University of Alberta.  
 Lehmann, J. F., B.Sc. Alta. '20, M.Sc. '21, University of Alberta.  
 Le Page, Geo. F., B.A. Alta. '22, Medicine Hat.  
 Lewis, John W., B.Sc. Alta. '21, 11536 77 Ave. Edmonton.  
 Lewis, Rev. Wm. A., B.A. Manitoba 1892.  
 Leonard, Mrs. W. M. (nee E. A. Weikes), B.A. Toronto.  
 Libby, Malcolm Mark, B.Sc.  
 Liesemer, Beatrice, B.A. Alta. '16.  
 Lillico, Robt. B. S., B.Sc. Alta. '20, 1935 12 St. W. Calgary.  
 Lincoln, W. A., M.D., M.S. McGill 1904, 1701 College Lane, Calgary.  
 Lindsay, E. A., B.A. Manitoba 1902.  
 Lindsay, N. B., LL.B. Alta. '14, Emery, Newell & Co. Edmonton.  
 Lindsay, N. J., M.B., M.D. Trinity 1874, 503 Centre St. Calgary.  
 Line, Wm., M.A. Alta. '22, Alta. Coll. South.  
 Linnell, Irving N., B.A., Prince Rupert, B.C.  
 Little, Mrs. Robt. (nee Marion Gill), B.A., Griffin Creek, Alta.  
 Lloyd, Mary E., B.A. Alta. '12, Waskatenau, Alta.



Lobb, Miss A., B.A. Alta. '16, Carstairs, Alta.  
 Lonsdale, T. H., B.A. Alta. '18.  
 Loucks, Jas. E., M.A. Alta. '18, Calgary Normal School.  
 Loughheed, Edgar, B.A. Alta. '20, 707 13 Ave. W. Calgary.  
 Love, John R., B.A. Alta. '20, Irma, Alta.  
 Low, Wm. Alex., LL.B. Alta. '17, Delia, Alta.  
 Lowery, Jas. R., B.A. Alta. '13, Lloydminster, Alta.

## MC

Macauley, Arch. F., B.A. Alta. '22, 1237 13 Ave. W. Calgary.  
 MacDonald, Angus M., B.A. Laval 1898, Lacombe.  
 MacDonald, Duncan, M.A. Queens 1863 (deceased).  
 MacDonald, Hugh John, B.A. Alta. '21, 9762 98 Ave. Edmonton.  
 MacDonald, Geo., M.D., C.M. McGill, 120 6th Ave. E. Calgary.  
 MacDonald, James M., B.A. Toronto 1906.  
 MacDonald, Laughlin R., B.A. Mt. Allison 1899.  
 MacDonald, Wm. D., B.S.A. Alta. '22, Grainger, Alta.  
 MacDonald, W. S., B.Sc. Alta. '15, Dept. of Interior, Calgary.  
 MacKenzie, Kenneth W., B.A. Toronto 1893.  
 MacKid, H. G., M.D., 220 6th Ave. E. Calgary.  
 MacKid, L. S., M.D., C.M. McGill, 220 6th Ave. E. Calgary.  
 MacLaren A. H., M.D., C.M. McGill 1904, 1227 14th Ave. W. Calgary.  
 MacLaren, Reg. F., LL.B. Alta. '22.  
 MacLeod, Colin, B.A. Dalhousie 1901 (killed in action).  
 MacLeod, Ethel A., B.A. Dalhousie 1900.  
 MacLeod, Hector J., M.Sc. Alta. '16, University of Alberta.  
 MacLeod, Mrs. H. J. (nee Helen Montgomery), B.A. Alta. '14, U. of A.  
 MacLeod, Jas. E. A., B.A. Dalhousie 1900, LL.B. 1903, Clark, Carson & MacLeod, Calgary.  
 MacLeod, Munro, B.A. Alta. '21, Wetaskiwin, Alta.  
 MacLeod, Wm. J., B.A. Kings Coll.  
 MacNamara, Sr. B., B.A. Alta. '18, M.A. '20, Convent F. J. C. Edmonton.  
 MacNiven, W. E. (Rev.), B.A. Toronto, Lethbridge, Alta.  
 MacVicar, John, M.A. Alta. '16.  
 McAllister, Chas. B., B.S.A. Alta. '21, 513 8 Ave. W. Calgary.  
 McAllister, Margaret, B.A. Alta. '16, 7412 105A St. Edmonton.  
 McArthur, Hector, B.S.A. Alta. '21, Agric. School, Gleichen, Alta.  
 McAulay, Murdock W., M.D., C.M. Dalhousie 1893.  
 McBride, Jas. B., LL.B. Alta. '21, 9823 112 St. Edmonton.  
 McBrine, A. R., B.A. Alta. '22, Stettler, Alta.  
 McCabe, Jas. O., B.A. Alta. '22, 11227 93 St. Edmonton.  
 McCaig, James, M.A. Toronto 1893, LL.B. Queens 1895 (deceased).  
 McCall, F. S., B.A. Alta. '12, Alta. Coll. North.  
 McCaul, C. C., B.A. Toronto 1899, 720-22 Tegler Bldg. Edmonton.  
 McCauley, Maud, B.A., 753 Wolseley Ave. Calgary.  
 McColl, Mack B., B.S.A. Alta. '22, Collholme, Alta.  
 McCrimmon, Katie, B.A. Alta. '17, 9814 103 St. Edmonton.  
 McDonald, Rev. A. M., B.A. McMaster 1899, Cleveland, Ohio.  
 McDonald, Mrs. D. W., B.A. Victoria 1891, 10014 105th St. Edmonton.  
 McDonald, Isabella, B.A. Alta. '18.  
 McDonald, J. N., B.Sc. '16, Sedgewick, Alta.  
 McDonald, Miss K. M., B.A. Toronto 1906.  
 McDonald, L. S., B.Sc. Alta. '15, Hamilton Bridge Co., Hamilton, Ont.  
 McDonald, N. D., B.A. Alta. '15, M.A. '16, B.D. '19.  
 McDonald, P.A., M.D. McGill 1903, L.R.C.P. Edin 1905, 9933 85th Ave. Edmonton.  
 McDonald, J. W., His Honour Judge, B.A. Toronto 1897, B.C.L. 1905, McLeod, Alta.



McDonald, Wallace, B.A. Dalhousie 1881, 10236 Wadhurst Rd. Edmonton.  
 McDonell, Jno. J., M.D., C.M. Queens 1903, 9931 112th St. Edmonton.  
 McDougall, W. R., B.A. Alta. '21, Box 54, Suffield, Alta.  
 McFarland, Constance, B.A. Alta. '20, 4366 Oakenwald Ave. Chicago.  
 McGee, Jas. A., LL.B. Alta. '22, 213 15 Ave. W. Calgary.  
 McGibbon, Donald, M.D., C.M. McGill 1902.  
 McGillivray, Arch. D., B.Sc. Alta. '21, Britannia Mines, B. C.  
 McGillivray, R. B., B.A. Alta. '20, Round Hill, Alta.  
 McGookin, John Y., B.A. Alta. '21, 8925 84 Ave. Edmonton.  
 McGregor, J. A., B.A., R. 34, Canada Life Bldg. Calgary.  
 McGuffin, Chester F., M.D., Western 1904, 410 Herald Bldg Calgary.  
 McGuire, Jas. B., LL.B. Alta. '16, Rockyford, Alta.  
 McGuire, John, B.Sc. Alta. '22, 11615 94 St. Edmonton.  
 McInnes, H. L., M.D., C.M. Manitoba 1885, 9513 103A Ave. Edmonton.  
 McInnes, W. A., B.Sc. Alta. '16, 171 So. Wilson Ave. Pasadena, Calif.  
 McIntosh, Geo. W., B.A. Alta. '14, Barrhead, Alta.  
 McIntosh, Jeanette, B.A. Alta. '21, 9729 106 St. Edmonton.  
 McIntyre, W., M.B. Toronto 1901 (deceased).  
 McIntyre, Mrs. R. (nee Sybil Sprung), B.A. Alta. '21, Reston, Man.  
 McKee, G. A., B. A., 10012 85th Ave. Edmonton.  
 McKee, Margt. Lillian, B.A. Queens 1900.  
 McKenna, Francis O., LL.B. Alta. '18, Bow Island, Alta.  
 McKenzie, Malcolm, M.A. Queens (deceased).  
 McKenzie, Jas. A., LL.B. Alta. '17, Wainwright, Alta.  
 McKenzie, W. J., B.A. Alta. '16, 1717 31 Ave. W. Calgary.  
 McKellar, Kate, B.A.  
 McKerricher, D. A., M.A. Alta. '18, Edmonton Normal School.  
 McKillican, Wm. C., B.S.A. Toronto 1905.  
 McKinney, Dr. J. W., B.Sc. Alta. '17, Dept. of Chemistry, McGill.  
 McKittrick, Eva. A., B.Sc. Alta. '22, 10628 884 Ave. Edmonton.  
 McKittrick, Elmer S., B.Sc. Alta. '20, 10628 84 Ave. Edmonton.  
 McLaren, D. D., M.D. McGill 1903.  
 McLatchey, H. J., B.A. New Brunswick.  
 McLaughlin, Constance, B.A. '21, Ribstone, Alta.  
 McLaurin, Colin C., LL.B. Alta. '22, Medicine Hat.  
 McLean, Alex. J., B.A.Sc. McGill 1874, 10525 Sask. Drive, Edmonton.  
 McLean, Jas. A., B.A. Toronto, Ph.D. Columbia, LL.D. Alberta, President  
 University of Manitoba.  
 McLean, Murdock, B.A. Alta. '16, Westlock, Alta.  
 McLennan, John A., B.A. Alta. '16, M.A. '17, Victoria H. S. Edmonton.  
 McLennan, Susan I., B.Sc. Alta. '22, 7765 Jasper Ave. Edmonton.  
 McLeod, Rev. K. C., B.A. Queens 1905, 9911 108th St. Edmonton.  
 McMillan, Jean E., B.A. Alta. '22, 129 6 Ave. E. Calgary.  
 McNally, Geo. F., M.A. Alta. '11, Dept. of Educ. Edmonton.  
 McNally, P.B., D.D.S. (killed in action).  
 McNamara, Sr. M. E., B.A. Alta. '18, M.A. '20, Sacred Heart Conv., Calg.  
 McNaught, David, B.A. Alta. '17, 10182 103 St. Edmonton.  
 McNaught, Robt. A. B.A. Alta. '20.  
 McNaughton, Peter, B.Sc. McGill 1895 (killed in action).  
 McNicol, Jas., B.A. Toronto 1889, Blackfalds, Alta.  
 McPhail, Jean, B.A. Toronto 1897, Central Coll. Instit. Calgary.  
 McPherson, John, B.A. Alberta 1916 (killed in action).  
 McQuaid, E. S., B.A. Harvard.  
 McQueen, Christine, B.A. Alta. '22, 9906 104 St. Edmonton.  
 McQueen, Rev. D. G., B.A. Toronto, 9906 104th St. Edmonton.  
 McQueen, Jean, B.A. Alta. '22, 9906 104 St.  
 McQueen, Robt. B.A. Alta. '19, M.A. '20, 9906 104 St. Edmonton.  
 McRae, Arch. O., B.A. Dalhousie 1893, W. Can. Coll. Calgary.  
 McWalter, Jas. C., M.A. Royal, Ireland.



# M

- Madden, Ed. Jas., M.D., C.M. Toronto 1906, 337 14th Ave. W. Calgary.  
 Madore, Louis, B.A. Laval, B.C.L. McGill, 10214 124th St. Edmonton.  
 Maguire, Lorene, B.A. Toronto 1912, 23 LeMarchand, Edmonton.  
 Malcolmson, Audrey, B.A. Alta. '21, 9925 107 St. Edmonton.  
 Malcolmson, Geo. H., M.B. Toronto 1897, 9925 107th St. Edmonton.  
 Manning, G. F. C., Ph.B. Chicago, Edmonton Normal School.  
 Manzer, L. H., B.Sc. Alta. '21, Nelson H. S., B. C.  
 Marion, Geo., B.A. Queens, 9943 88th Ave. Edmonton.  
 Marshall, R. E., B.A. Toronto 1894 (deceased).  
 Martin, J. N., B.S.A. '20, Dalroy, Alta.  
 Martin, R. M., B.Sc. Alta. '16, Evansburg, Alta.  
 Mason, Ed. G., M.D., C.M. McGill 1902, 520 1st St. E. Calgary.  
 Massey, A. W., B.A.  
 Massie, Geo. W., B.A. New Brunswick, 9912 106th St. Edmonton.  
 Mather, T. H., B.S.A. Alta. '22, Stanmore, Alta.  
 Matthews, A. W., B.Sc. Alta. '21, University of Alberta.  
 Matthews, Henry, B.Sc. London 1866.  
 Mattern, L. R., B.A. Alta. '14, M.A. '20, Strathcona H. S.  
 Maughan, Albert, B.A. Manitoba.  
 May, Laren W., M.D., C.M. McGill 1902.  
 Mayhood, L. F., LL.B. Michigan, 936 8th Ave. N. W. Calgary.  
 Meagher, Jas. R., B.S.A. Alta. '21, Yonker, Sask.  
 Melrose, Charlotte, B.A. McGill 1897, 10717 98th Ave. Edmonton.  
 Membery, Giles C., M.D., C.M. Trinity 1897, Innisfail, Alta.  
 Menzies, Ernest, B.S.A. Alta. '18, Med. Fac. McGill.  
 Mewburn, F. H., LL.D. Alberta 1922, University of Alberta.  
 Mewburn, L. M., M.D., c. o. Prof. Mewburn, University of Alberta.  
 Michener, Roland, B.A. Alta. '20, Hertford College, Oxford.  
 Middleton, W., B.Sc. Alta. '17.  
 Might, S. W., B.A. Toronto 1880, M.A. 1906, 140 2nd Ave. W. Calgary.  
 Miller, Aileen, B.A. Alta. '22, 10660 97 St. Edmonton.  
 Miller, Mrs. J. L. (nee Winnifred Hyssak), B.A. Alta. '12, 218 5 Ave. S. Lethbridge.  
 Miller, L. H., LL.B. Alta. '14, Consort, Alta.  
 Miller, L. V., B.Sc. '20, 3675 3 Ave. W. Vancouver.  
 Mills, S. G., B.A. Toronto.  
 Misener, G. D., B.A. Alta. '12, 11053 90 Ave. Edmonton.  
 Miskew, P. A., B.A. Alta. '22, Mundare, Alta.  
 Mitchell, Chas. R., B.C.L. Kings Coll. 1897, B.A. N. Bruns. 1894, 10018 114th St. Edmonton.  
 Mitchell, B. F., B.A.Sc., 9937 112th St. Edmonton.  
 Mitchell, E. T., B.A. Alta. '12, M.A. '13.  
 Mitchell, Mrs. E. T. (nee Decima Robinson), B.Sc. '11, M.Sc. '12, U. of A.  
 Mode, A. T., B.A. Toronto 1903, 9908 90th Ave. Edmonton.  
 Moeller, C. G., B.A. Alta. '15, LL.B. '17, c. o. Boothe & Morrow, McLeod Bldg. Edmonton.  
 Moffat, David S., B.A. McGill 1894, B.C.L. 1901, 313 38th Ave. W. Cal.  
 Monkman, H. S., M.D., C.M. Toronto 1906 (killed in action).  
 Moore, J. Carlyle, B.A. Toronto 1902, Red Deer.  
 Moore, Miss M. B., M.A. Alta. '14, Coll. Instit. Calgary.  
 Moore, G. G. L., B.A. Alta. '21, 10419 92 St. Edmonton.  
 Moore, Hazel, B.A. Alta. '22, 10735 107 St. Edmonton.  
 Moraw, L. S., B.A. '21, 10963 125 St. Edmonton.  
 Morecombe, P. F. G., B.A. Alta. '19, M.A. '20, B.D. '21, 1507 Broad St., Hartford, Conn.  
 Morgan, A. R., B.A. Alta. '22, 11009 87 Ave. Edmonton.



Morgan, J. Burt, B.A. (deceased).  
 Morgan, J. J., B. A. Toronto, Victoria High School, Edmonton.  
 Morgan, Jas., B.A. Queens 1900, Lethbridge.  
 Morgan, S. C., B.Sc. Queens, University of Alberta.  
 Morgan, Mrs. S. C. (nee Gladys Buchanan), B.A. '17, care Dept. of Physics, University of Alberta.  
 Morrison, Mrs. I. F. (nee Kathleen Lavell), B.A. Alta. '13, U. of A.  
 Morrison, J. W. G., B.A. Dalhousie 1900, LL.B. 1905, Vermilion, Alta.  
 Morrison, F. A., B.A. Dalhousie 1901, District Court, Edmonton.  
 Mothersill, J. D. O., B.A. Alta. '16, 11014 89 Ave. Edmonton.  
 Mowat, Rev. W. H., M.A.  
 Muir, Jas., B.A. Queens 1861, Muir, Adams & Brownlee, Calgary.  
 Mulholland, Elsie, B.A. McMaster, Alberta College North.  
 Mullin, John A., D.D.S. '20, Box 116, Claresholm.  
 Mundell, Mrs. R. (nee Miss A. L. McLeod), B.A. Alta. '19, Lemberg, Sask.  
 Munro, Alex. M., B.A. Alta. '14, M.A. '21, Strathcona H. S.  
 Munro, J. D., LL.B. Alberta 1917 (deceased).  
 Murphy, Chas. H., B.A. Trinity Coll. Dublin.  
 Murphy, R. C., B.A. N. Bruns. 1904.  
 Murphy, Thos., B.A. Alta. '14, Ed. Bulletin.  
 Murray, Norman, B.A., LL.B. Dalhousie 1901, Vermilion, Alta.  
 Murray, Dr. Walter, LL.D. Alberta 1915, Pres. Univ. of Saskatchewan.  
 Myers, Chas. A., M.A. Dalhousie 1901.

## N

Nash, Ruby, B.A. Queens, 20 Derwas Court, Edmonton.  
 Nelson, Mrs. Erna (nee Erna Roedler), B.A. Alta. '14, Cluny, Alta.  
 Neilson, Jessie A., B.A. Toronto 1904.  
 Newcombe, A. C., B.A. McMaster 1900, 1315 15th St. N. W. Calgary.  
 Newland, H. C., LL.B. Alta. '21, 11129 61 St. Edmonton.  
 Newson, Wm. V., B.A. McGill 1900, M.Sc. 1901, 11118 85th Ave. Ed.  
 Nichols, Edw. H., B.A. Acadia 1893, LL.B. Dalhousie 1898.  
 Nicholls, A. A., M.D., C.M. Manitoba 1902 (deceased).  
 Nicol, Rev. Dr. J. L., Ph.D., Saskatoon, Sask.  
 Nicoll, James M., B.A. Alta. '22, 1722 14 Ave. W. Calgary.  
 Nicoll, Jean, B.A. Alta. '22, 1722 14 Ave. W. Calgary.  
 Niddrie, John, M.A. Alta. '20, 9851 86 Ave. Edmonton.  
 Nielson, Sigvald, B.A. Alta. '22, 10709 93 St. Edmonton.  
 Nightingale, W. H., B.A. Bishop's Coll., 11702 100th Ave. Edmonton.  
 Noble, George D., LL.B. Alta. '22.  
 Noel, Jas. C., B.C.L. Bishops Coll.  
 Nolan, Henry G., B.A. Alta. '14.  
 Nolan, P. J., B.A. Dublin 1885 (deceased).  
 Norrington, Annie, B.Sc. Manitoba 1917, University of Alberta.

## O

Ockley, Beatrice, B.A. Queens.  
 O'Connor, J. J., LL.B. Alta. '16, 127A 8 Ave. W. Calgary.  
 O'Connor, T. J., LL.B. Alta. '21, 127A 8 Ave. W. Calgary.  
 Oestrich, Mrs. (nee Edna Tharp), B.A. Alta. '19, Manola Alta.  
 Ogilvie, James H., B.A. '18, LL.B. '22, Griesbach & O'Connor, Edmonton.  
 Ogston, Alex. M., B.A. Alta. '22, Robertson Coll. Edmonton.  
 O'Hagan, T. F., M.D., C.M. Queens 1900.  
 Oldwright, H. H., M.B. Toronto 1891.  
 Osborne, Mrs. F., B.A.  
 O'Sullivan, R. B., B.A. McGill 1892, 536 10th Ave. W. Calgary.  
 Ottewell, A. E., B.A. Alta. '12, M.A. '15, University of Alberta.  
 Owens, R.E., B.A., B.E. Royal 1898, 7405 Sask. Drive, Edmonton.



# P

Paget, Rev. E. C., B.A. Oxford 1874, M.A. 1876, 229 6th Ave. E. Calgary.  
 Park, John, M.D., C.M. Trinity (deceased).  
 Parker, H. R., B.A., Vermilion, Alta.  
 Parlee, H. H., B.A. Mt. Allison 1898, B.C.L. (N.S.) 1901, C.P.R., Bldg. Ed.  
 Parney, Geo. L., B.A. Alta. '21, 10226 103 St. Edmonton.  
 Parsons, Ernest H., B.A. Alberta 1921 (posthumous). (Killed in action).  
 Paterson, A. Blair, LL.B. Alta. '21, 11041 85 Ave. Edmonton.  
 Paton, Thos., B.A. Alta. '20, Box 292, Bassano, Alta.  
 Patterson, Donald, LL.B. Alta. '16, Lethbridge.  
 Patterson, Guy E., B.A. Alta. '16, Jackson, Patterson & Co., Tegler Bldg.,  
 Edmonton.  
 Patterson, Jas. B., B.A. McMaster 1896, 207 Devenish Apts. Calgary.  
 Patterson, W. A., B.A. Trinity 1903, M.A. Toronto 1904, 1107 Riverdale,  
 Calgary.  
 Patterson, W. H., B.A. N. Bruns. 1903, 419 13th St. N. W. Calgary.  
 Peacock, M. B., LL.M., 840 20th Ave. W. Calgary.  
 Pearse, Harry, B.A. Alta. '19.  
 Pearson, Rev. Robt., B.A. Toronto 1904, 1815 8th St. W. Calgary.  
 Pegrum, D. F., B.A. Alta. '22, 11513 125 St. Edmonton.  
 Pelluet, Dixie, B.Sc. Alta. '19, M.Sc. Tor., 11024 84 Ave. Edmonton.  
 Pennock, Fred., B.A. Alta. '19, LL.B. '21, Tegler Bldg. Edmonton.  
 Pentland, Geo. E., M.A. Queens 1906, Williamstown, Ont.  
 Pentland, Lucile G., B.A. Alta. '22, 11011 86 Ave. Edmonton.  
 Perkins, Ella, B.A., 1056 Granville St. Vancouver.  
 Perraton, Fred, B.A. Alberta 1916 (killed in action).  
 Philp, D. F., B.A. Alta. '22, 10163 108 St. Edmonton.  
 Phillips, Edw. W., B.S.A. Alta. '22, Langdon, Alta.  
 Pinkham, Bishop Cyprian, D.C.L. Trinity, 1818 1st St. E. Calgary.  
 Pirie, Geo. R., M.B. Toronto 1901.  
 Plummer, N. M., LL.B. Alta. '22, 514 21 Ave. W. Calgary.  
 Pollard, W. C., LL.B. Alta. '16, Fort Perry, Ont.  
 Poole, John I., B.A. Toronto 1885, Wetaskiwin.  
 Poole, Mabel M., B.A. Alta. '21, Vegreville H. S.  
 Poops, Wm. B., B.A. Alta. '16, Sedgewick, Alta.  
 Pope, F. S., M.D., C.M. Trinity 1888.  
 Popple, A. E., LL.B. Alta. '15, Atty.-Gen's Dept. Edmonton.  
 Porte, G. R., LL.B. Alta. '15, Tegler Bldg. Edmonton.  
 Porteous, Bessie, B.A. Alta. '20, 10608 80 Ave. Edmonton.  
 Power, Alice B., M.A. Acadia 1898 (deceased).  
 Powlett, Chas. H. A., LL.B. Alta. '22, 1103 7 St. W. Calgary.  
 Priestley, Norman F., B.A. Alta. '16, Coaldale, Alta.  
 Primrose, P. C. H., Royal Military 1885, 10048 118th St.  
 Proctor, Henry, B.A. McMaster 1899 (deceased).  
 Puffer, S. A., LL.B. Alta. '22, 22 Parkview Apts. Edmonton.

# Q

Quance, F. M., B.A. Alta. '14, M.A. '15, Normal School, Regina.  
 Quigley, Sr. Mary J., B.A.



# R

- Race, Cecil E., B.A. Toronto 1897, University of Alberta.  
 Race, Mrs. C. E., B.A. Toronto 1898, University of Alberta.  
 Rae, Wm. A., B.A. Toronto 1896, Grande Prairie, Alta.  
 Ratchliffe, S. C., M.A. Alta. '18, 201 N. McCullough Ave. Urbano, Ill.  
 Raver, Helen J., B.A. Alta. '21, 10231 124 St. Edmonton.  
 Ray, Rev. Geo. A., M.A. Trinity.  
 Rea, Wm., B.A. Toronto 1899, M.A. 1905, 509-10 Tegler Bldg. Ed.  
 Redmond, Wm. C., M.D., C.M. Queens 1901, 9818 108th St. Edmonton.  
 Reed, Hiram E., B.Sc. Alta. '14, 9 Thomas Blk. Calgary.  
 Reeve, Geo. W., B.A. Alta. '14.  
 Rehwinkel, Alfred, B.A. Alta. '16, M.A. '19, 9608 110 Ave. Edmonton.  
 Reikie, T. T. (Rev.), B.A. Toronto, 8211 Rowland Rd. Edmonton.  
 Reilly, Chas. F., B.Sc. Alta. '20, Western Canada College.  
 Reilly, Clifford B., LL.B. Laval 1903.  
 Reilly J. D., B.A., Room 8, Legislative Bldgs. Quebec.  
 Rein, Rose, LL.B. Alta. '22, 1318 8 St. W. Calgary.  
 Revell, Dr. D. C., M.B., M.D. Toronto, University of Alberta.  
 Revell, Mrs. D. G., B.A. Toronto 1895, University of Alberta.  
 Richardson, F. J., LL.B. Alta. '21, c. o. Macdonald & Harvey, Tegler Bldg. Edmonton.  
 Richardson, H. J., M.D., C.M. McGill 1894 (deceased).  
 Riches, P. L. F., B.A. Alta. '21, 27 View Court, Medicine Hat.  
 Riddell, Rev. Dr. J. H., B.A. Toronto 1893, DD. 1906, Wesley Coll. Wpg.  
 Riley, F. R., B.A. Alta. '16, Big Valley, Alta.  
 Ritchie, A. R., M.B. Toronto.  
 Ritson, Claude W., B.Sc. Alberta 1914 (killed in action).  
 Rivers, Dr. J. H., M.B. Toronto 1896, Lethbridge.  
 Roberts, R. H., B.A.  
 Roberts, J. B., B.A. Mt. Allison, 317-37th Ave. W. Calgary.  
 Robertson, Alex. C., M.D., C.M. Queens 1893.  
 Robertson, Dr. Robet. D., M.D., C.M. McGill 1901, Wetaskiwin.  
 Robertson, A. J., B.A. McGill 1893, 818 Rideau Rd. Calgary.  
 Robertson, Geo. W., B.A. Toronto 1907, M.A. 1911.  
 Robinson, C. R., B.A. Alberta 1921 (deceased).  
 Robinson, George, B.Sc. Alta. '15, M.A. '20, c. o. Math. Instit. Edinburgh University.  
 Robinson, Harold B., LL.B. Alta. '17, Etzikon, Alta.  
 Robinson, V. B., B.S.A. Alta. '20, Supt. Agric. Ed., Penticton, B. C.  
 Robson, Helen M., B.Sc. Alta. '22, 10023 115 St. Edmonton.  
 Ronning, Nelius, B.A. Alberta 1918, M.A. 1920 (deceased).  
 Roscoe, Helen M., B.A. Alta. '22, 11158 82 Ave. Edmonton.  
 Ross, Geo. H., LL.B. Michigan, Short, Selwood & Ross, Calgary.  
 Ross, John T., B.A. Manitoba, Dept. of Education, Edmonton.  
 Rouleau, E. S., M.D. Laval 1879 (deceased).  
 Russell, C. H., B.A. Toronto 1903, Wetaskiwin, Alta.  
 Russell, Jas. Geo., LL.B. Alta. '22.  
 Russell, Percy B., LL.B. Alta. '16, Medicine Hat.  
 Russell, Mrs. R. J. (nee Stella Ruttan, B.A. Alta. '12, 10650 79 Ave. Ed.  
 Rutherford, Hon. A. C., B.A. 1881, B.C.L. 1881 McGill, LL.D. Alberta, 11159 Sask. Drive, Edmonton.  
 Rutherford, Ralph, B.Sc. Alta. '19, M.Sc. '20, Dept. of Geol. U. of Wisconsin.  
 Ryall, Septimus, B.A. Manitoba 1898, 11153 Sask. Drive, Edmonton.  
 Ryan, C. E. W., M.D. McGill 1899 (deceased).  
 Ryan, Edw. P., B.A. Laval 1899, 308 23rd Ave. W. Calgary.



# S

- Sale, Rev. A. W., M.A.  
 Sandin, Reubin, B.A. Alta. '16, M.A. '19, University of Alberta.  
 Sands, S. H., D.D.S. Alta. '20.  
 Sanderson, J. O. G., B.Sc. Alta. '22, University of Alberta.  
 Sandford, G., B.S.A. Alta. '20, U. of Minn. St. Paul.  
 Sanson, Clarence, B.A. N. Bruns. 1905, Edmonton Normal School.  
 Saunders, B. J., B.A.Sc. McGill 1886, 10024 106th St. Edmonton  
 Sawula, Stephen, LL.B. Alta. '22, 10765 88 St. Edmonton.  
 Sayers, John H., LL.B. Alta. '21, 523 Alberta Block, Edmonton.  
 Scholl, Carl A., B.S.A. Alta. '18, Coll. of Agric. U. of Illinois.  
 Scott, A. M., B.A. Toronto 1896, Ph.D. N. Bruns. 1900, 907 18th Ave. W. Calgary.  
 Scott, Mrs. E. B., B.A. Toronto 1897, 907 18th Ave. W. Calgary.  
 Scott, Jas. F., LL.B. Alta. '22, Molsons Bk. Bldg. Calgary.  
 Scott, Percy, LL.B. Alta. '22.  
 Scott, Walter, B.A. Toronto 1904, Hardisty, Alta.  
 Scott, Walter H., M.D., C.M. Queens 1907, c. o. 9825 106th St. Edmonton.  
 Scroggie, A. G., B.Sc. Alta. '22, University of Alberta.  
 Selwood, Fred S., B.A. Toronto 1897, 1727 10th St. W. Calgary.  
 Seyer, Prof. W. F., B.Sc. Alta. '15, M.Sc. '18, Dept. of Chem. U. of B. C.  
 Sharpe, Dr. E. M., M.D., C.M. McGill 1894, Lacombe.  
 Shaw, Jas. T., LL.B. Michigan, 1316 15th St. N. W. Calgary.  
 Sheane, Geo. K., B.A. Alta. '15, Lacombe, Alta.  
 Shearer, Dr. Robt., M.D., C.M. McGill 1901, 10719 127th St. Edmonton.  
 Sheppard, Ross, M.A. Alta. '15, Strathcona H. S.  
 Shipley, W. J., M.D. Western 1906, 715A 1st St. E. Calgary.  
 Short, Jas. B.A. Toronto 1885, 202 2nd Ave. W. Calgary.  
 Shortt, Rev. J. S., B.A. Queens 1894, M.A. 1897, Daysland, Alta.  
 Sifton, Hon. Arthur L., B.A., M.A., LL.B. Victoria 1880 (deceased).  
 Sillak, John G., B.A. Alta. '21.  
 Simmons, W. C. (Mr. Justice), B.A. Toronto 1905, Court House, Calgary.  
 Simonds, C. E. Arthur, B.A., B.C.L. Kings, Leduc, Alta.  
 Simpkin, D. B. B.Sc. Alta. '22, Maple Creek.  
 Simpson, Maimie S., B.Sc. Alta. '22, 11125 88 Ave. Edmonton.  
 Simpson, W. E., LL.B. Alta. '18, Empire Blk. Edmonton.  
 Simpson, W. G., M.D., C.M. Queens 1899, Lacombe, Alta.  
 Sinclair, Douglas C., LL.B. Alta. '22, 1011 19 Ave. W. Calgary.  
 Sinclair, Robt. B.S.A. Alta. '18, Olds Agric. School.  
 Sinott, H. A., B.A. Mt. Allison 1895.  
 Sisley, Euston, B.A. Toronto 1885, M.B. 1888, 307 8th Ave. W. Calgary.  
 Skarin Emil, B.Sc. Alta. '18, 11115 89 Ave. Edmonton.  
 Skarin, Mrs. E. (nee Ada Fryk), B.A. Alta. '19, Nulga.  
 Skippen, Mrs. E. (nee Minnie Fowler), B.A. Alta. '13, Paradise Valley.  
 Sloane, J. G. M., M.B. Toronto 1895.  
 Slocock, E. F., B.A. Cambridge 1888.  
 Smith, Edgar, B. A. Alta. '18, 246 23 Ave. N. W. Calgary.  
 Smith, Frank C., C.E. Glasgow 1888, B.Sc. 1890 (deceased).  
 Smith, Frank W., M.B. Toronto 1894.  
 Smith, Dr. H. R., M.D., C.M. Trinity 1899, 12525 104th Ave. Edmonton.  
 Smith, J. A., B.A. Toronto 1904.  
 Smith, J. Laptharn, M.D.  
 Smith, Kenneth, B.A. Alta. '21, 10168 88 St. Edmonton.  
 Smith, Marion, B.A. Alta. '15, 536 8 St. S. Lethbridge.  
 Smith, S. Bruce, B.A. Alta. '19, LL.B. '22, 11002 88 Ave. Edmonton.  
 Smith, Dr. W. Duncan, M.D., C.M. McGill 1890, 10221 123rd St. Ed.  
 Smith, W. Larue, B.A. Alta. '15, M.A. '20, 10822 123 St. Edmonton.  
 Smithers, Gordon T., B.Sc. Alta. '21, Schumacher, Ont.  
 Smyth, Dr. C. E., M.B. Toronto 1894, Medicine Hat, Alta.



Snider, Edw. C., B.A. Alta. '21.  
 Solheim, A. H., B.A. Alta. '14, Lutheran Coll. Camrose.  
 Soltau, W. G., LL.B. Alta. '20, Suite 3, 2119 5 St. W. Calgary.  
 Spratt, Mrs. C. J. (nee Bessie Nichols), B.A. Toronto.  
 Stafford, Dorothy, B.A. Alta. '22, 603 5 Ave. S. Lethbridge.  
 Stainton, T. J., B.A. Alta. '18, Bon Accord, Alta.  
 Stanton, H. E., B.A. Alta. '19, LL.B. '21, 10338 105 St. Edmonton.  
 Steele, Ethel M., B.A. Alta. '21, Lockhart, Alta.  
 Steele, Ivy, B.A. Alta. '22, Ponoka, Alta.  
 Steinhauer, R. B., M.A. Victoria, Indian Reserve, Morley, Alta.  
 Stenhouse, Mrs. J. L., B.A. McMaster, Rocanville, Sask.  
 Stevens, G. R., B.A. Alta. '15, Kingston, Jamaica.  
 Stevenson, Mrs. J. W. (nee Margaret MacCauley), B.A., 251 Farmington Ave., Hartford, Conn.  
 Stevenson, T. B., M.D., C.M. Trinity 1904, Wetaskiwin.  
 Stewart, Chas. J., M.D. McGill 1901.  
 Stewart, Grace, B.A. Alta. '18, M.A. '20, c. o. Mrs. G. H. Clark.  
 Stewart, G. G., M.D., C.M. Queens 1895, Camrose, Alta.  
 Stick, Ed. N., B.Sc. Mt. Allison 1921.  
 Stillman, Mrs. R. B., D.D.S. Alta. '19, 513 Herald Bldg. Calgary.  
 Stover, N., B.Sc. Alta. '18, M.Sc. '21, University of Alberta.  
 Stover, Mrs. N. (nee Vera Lee), B.Sc. Alta. '19, M.Sc. '20, U. of A.  
 Straight, Blanche H. A., B.A. Toronto 1900 (deceased).  
 Stuart, Hon. Chas. A. (Chancellor) B.A. Toronto 1891, 718 7th Ave. Cal.  
 Stuart, Jean M., B.A. Alta. '17, M.A. '18, 12513 Stony Plain Rd. Ed.  
 Stuart, Oliver L., B.A. Alta. '22, 12513 Stony Plain Rd. Edmonton.  
 Stubbs, Frances, B.A. Alta. '19, University of Alberta.  
 Stutchbury, E. W., B.A. Alta. '22, 9345 104 Ave. Edmonton.  
 Suito, Minnie, B.A. Alta. '22, Red Willow, Alta.  
 Summerhayes, Mercy B., B.A. Alta. '20.  
 Sutherland, Miss Janet, B.A.  
 Suttill, Rev. J. P., B.A. Alta. '17, M.A. '20, Cereal, Alta.  
 Swanson, Alice, B.Sc. Alta. '22, Prosper, Alta.  
 Sykes, Rev. Wm., B.A. Alta. '17, M.A., B.D. '20, Craigmyle, Alta.

## T

Tapp, Cecil, B.Sc. Alta. '19, Pincher Creek, Alta.  
 Taylor, Hon. H. C., M.A. Mt. Allison 1890, 9907 105th St. Edmonton.  
 Taylor, Howard T., B.A. Alberta 1915 (killed in action).  
 Taylor, John G., B.A. Toronto 1896, 10987 125th St. Edmonton.  
 Taylor, R. C., B.A. Alta. '21, Ponoka, Alta.  
 Tegler, Robt., B.A. Toronto 1899.  
 Telfer, Douglas, B.A. Alta. '14, M.A. '15, B.D. '16, St. James Methodist Church, Winnipeg.  
 Terrill, Kathleen, B.A. Alta. '21, 1004 3 Ave. S. Lethbridge.  
 Teskey, Kathleen, M.A. Queens.  
 Teviotdale, Mrs. D. J. (nee Agnes Wilson), B.A. Alta. '12, 11111 90 Ave. Edmonton.  
 Teviotdale, D. J., B.A. Alta. '20, M.A. '21, 11111 90 Ave. Edmonton.  
 Teviotdale, Eliz. F., B.A. Alta. '19, M.A. '20, 9555 106 St. Edmonton.  
 Thibaudeau, P. H., B.A. Queens 1903, Stettler, Alta.  
 Thompson, Wm. B.A. Alta. '21, 11501 95 St. Edmonton.  
 Thompson, W. H., B.A. Toronto 1900 (deceased).  
 Thomson, Rev. D. M., B.A. Alta. '18, 9 Bannerman Ave., Winnipeg.  
 Thomson, Georgie H., B.A. Alta. '19, 112 Garden Crescent, Calgary.  
 Thornton, Harold R., B.S.A. Alta. '22, Red Deer, Alta.  
 Tiffin, Melvin Erle, M.B. Toronto '22, M.D. Alberta '22, Rockyford, Alta.



Tighe, J. J., LL.B. Alta. '18, Box 380, Calgary.  
 Tillotson, Hazel H., B.A. Alta. '20, Hillhurst P. S. Calgary. (Okotoks).  
 Tilson, F. L., B.A. Toronto 1910, Lamont, Alta.  
 Toll, Wm. C., M.B. Toronto 1905, Carbon, Alta.  
 Tompkins, Stuart R., B.A. Toronto.  
 Tookey, C. H., B.A. Alta. '20.  
 Towerton, H. J., B.Sc. Alta. '13, 10954 80 Ave. Edmonton.  
 Trainor, Gregory, LL.B. Alta. '14.  
 Tregillus, Muriel, B.A. Alta. '20, M.A. '22, University of Alberta.  
 Trimble, Gladys, B.Sc. Alta. '21, Red Deer.  
 Tuller, Dr. P. W., M.D., Lethbridge.  
 Turcot, L. H., M.D. Laval 1903, Pincher Creek, Alta.  
 Tuttle, Rev. A. S., M.A. Mt. Allison 1907, Alberta College South.  
 Tweedie, Thos. M., B.A. Mt. Allison, 710 15th Ave. W. Calgary.

## V

Valiquette, John A., LL.B. Alta. '17, 732 12 Ave. Calgary.  
 Van Allen, G. H., LL.B. Alta. '16, 211 Empire Blk. Edmonton.  
 Van Petten, E. J., B.A. Alberta 1916 (killed in action).  
 Varley, F. W., B.A. Victoria 1905, M.A. Toronto 1906.  
 Varnum, A. C., B.A. Alta. '22, 10041 101 St. Edmonton.  
 Villett, Geo. H., B.A. Alta. '22, Alta. Coll. South.  
 Villy, Margaret H., B.A. Alta. '22, 2413 15 St. W. Calgary.  
 Virtue, A. G., LL.B. Alta. '14, Lethbridge.  
 Voisin, Rev. H. E., M.A.  
 Voyer, Adrian, B.A. Laval 1921, 10018 106th St. Edmonton.

## W

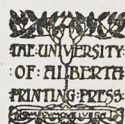
Waggett, J. M., B.A. Alta. '12, Jenner, Alta.  
 Walker, H. C. B., M.D., C.M. Trinity 1898 (deceased).  
 Wallace, Jas. N., B.A. Dublin 1892, B.C.E. 1893, 735 5th Ave. W. Calg.  
 Wallace, Wm., M.A. Glasgow 1895.  
 Wallbridge, J. E., B.A. Toronto 1897, 10408 126th St. Edmonton.  
 Ward, A. S., B.S.A. Alta. '21.  
 Watt, A. Balmer, B.A. Toronto 1897, 10029 113th St. Edmonton.  
 Watt, John E., B.A. Cambridge 1896, Claresholm, Alta.  
 Watson, Cecilia B., B.A. Alta. '20, Colinton, Alta.  
 Webb, C. W., B.A. Toronto.  
 Webb, H. R., B.Sc. Alta. '21, M.Sc. '22, University of Alberta.  
 Webster, D. A. C., B.A. Alta. '22, 1316 Prospect Ave. Calgary.  
 Welch, Sibyle A., B.A. Alta. '21, Okotoks, Alta.  
 Wells, Dr. R. B., M.B. Toronto 1904, 10328 Connaught Drive, Edmonton.  
 Wells, Mrs. R. B., B.A. Toronto 1905, 10328 Connaught Drive. Ed.  
 Wells, T. H., LL.B. Alta. '18, Munson, Alta.  
 Wells, Thos. H., B.A. Alta. '20, Fern Creek, Alta.  
 Wershof, Minnie, B.A. Alta. '22, 9515 101 Ave. Edmonton.  
 Wershof, Stanley, B.A. Alta. '19, 9515 101 Ave. Edmonton.  
 Whiffin, Horace E., LL.B. Alta. '22, 320 2 St. Medicine Hat.  
 Whitbread, R. J., B.S.A. Alta. '18, Olds Agric. School.  
 White, A. E., B.A. Alta. '16, c. o. Maitland & Maitland, Vancouver.  
 White, Harry, B.A. Alta. '16, LL.B. '18, Mundare, Alta.  
 White, J. G., B.A. Alta. '12, 727 Hornby St. Vancouver.  
 White Matthew, M.A. Glasgow 1882, B.D. 1886, Lacombe, Alta.  
 Whitehead, W., M.A. Oxford 1904. Innisfail, Alta.

Whitelaw, T. H., B.A. Toronto 1900, M.D. 1904, Edmonton M. H. O.  
 Whiteman, Dorothy, B.Sc. Alta. '22, 84 Glencairn Ave., Toronto; 530 10 Ave. N. E. Calgary.  
 Whiteside, O. E. S., B.A.Sc. McGill 1904, M.A.Sc. 1906, Coleman, Alta.  
 Whittaker, E. L., B.A. Alta. '21, Vegreville, Alta.  
 Whittaker, H. F., D.D.S., 10340 124th St. Edmonton.  
 Wiat, Rev. G., M.A., Red Deer, Alta.  
 Williams, Catherine L., B.A. Alta. '22, Bellevue, Alta.  
 Williams, Owen, B.A. Cambridge 1908, Ponoka, Alta.  
 Williams, Ruth A., B.A. Alta. '21 805 15 St. N. W. Calgary.  
 Williams, R. F., B.A. London, Okotoks, Alta.  
 Willis, E. B., M.A. Alta. '22.  
 Wilson, C. W., M.D., C.M. McGill 1886, Bremner, Alta.  
 Wilson, Dr. Margaret, B.A. Alta. '22, M.D. Man. '21, 10942 90 Ave. Ed.  
 Wilson, H. C., M.D., C.M. Trinity 1882 (deceased).  
 Wilson, H. J., B.A. Alta. '15, 10423 Sask. Drive, Edmonton.  
 Wilson, Ivy S., B.A. Alta. '22, 234 10A St. N. W. Calgary.  
 Wilson, J. K., LL.B. Alta. '17, McDonald, McKenzie & Speers, Edmonton.  
 Wilson, T. J., B.A. Alta. '15, St. Bartholomew's Hosp. London.  
 Wilson, W. A., M.D., C.M. McGill 1900 9916 113th St. Edmonton.  
 Wilson, Wm. F., B.S.A. Alta. '21, Innisfail, Alta.  
 Wood, Alethea A., B.A. Alta. '22, Hardisty, Alta.  
 Woodhead, Prof. W. D., M.A. Alta. '13, U. of Toronto.  
 Woodland, G. H., M.D., Medicine Hat.  
 Woods, Sydney B., B.A. Toronto 1894, LL.B. 1895, Stony Plain Rd. Ed.  
 Woodworth, Fred L., B.Sc. Acadia 1917, Wolfville, N. S.  
 Wright, Chas. A., B.A., B.C.L., Trinity 1905, 3002 Glencoe Rd. Calgary.  
 Wright, Rev. Thos. H., B.A. (B. C.) '21—Alta. ad. eund. '21, 291 Slocan St. Vancouver.  
 Wrinch, L. B., B.A. Alta. '22, Hazelton, B. C.

## Y

Yatchew, John, B.A. Sask. 1921.  
 Young, Chas., B.A. Alta. '21, Gwalier Mission Housie, Jhansie W. P. India.  
 Young, F. G., B.A. Alta. '15, Box 56, Tofield, Alta.  
 Young, Percy, B.A. Alberta 1913 (killed in action).





















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